http://www.lbl.gov/Workplace/CFO/spo/proposal_submit/pi_keypersonnel_reg.html

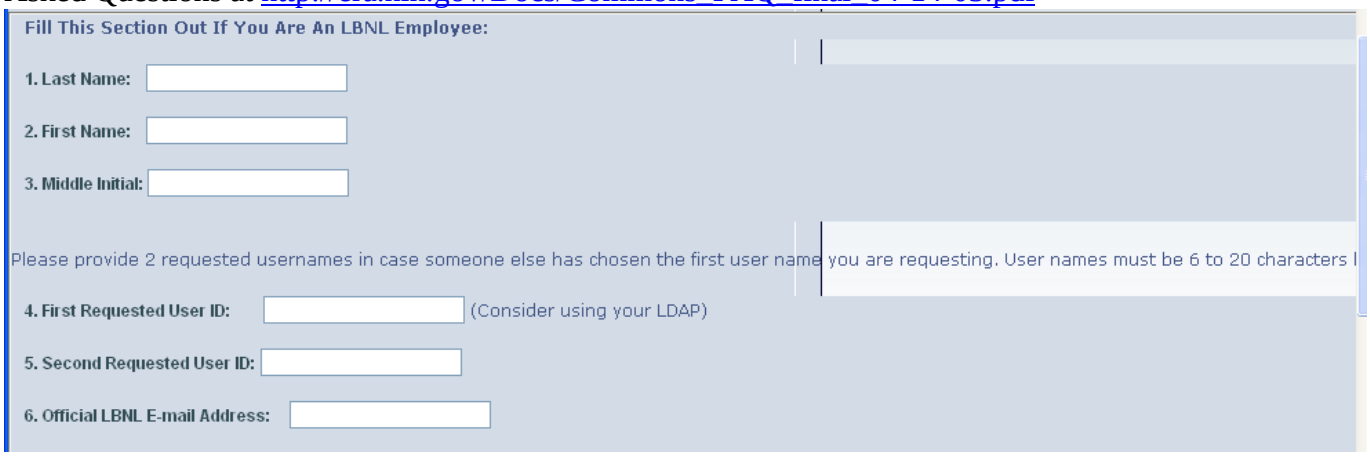
NIH Commons PI and Key Personnel On–Line Registration

New NIH proposal application forms now require PI NIH Commons Username as part of the application. Your registrations should be completed prior to the submission of any NIH proposal so that your Username on the Proposal is correct and active.

What is the NIH Commons? It is a system to facilitate the exchange of essential information between NIH and the Grantee organization (i.e. Berkeley Lab). The "Commons" is a Web interface where NIH and Berkeley Lab are able to conduct sponsored research administration.

Complete and submit the Berkeley Lab Online Registration Form below and the Sponsored Projects Office will begin your registration into the NIH Commons. You will receive a follow-up e-mail from NIH to complete your registration. You must complete that step in order to be fully registered.

If you have additional questions regarding NIH Commons, please review NIH Common's Frequently Asked Questions at http://era.nih.gov/Docs/Commons_FAQ_final_04-14-03.pdf



If you have not been a Principal Investigator, LBNL will use your Social Security Number as required by NIH. Please do not email it.

You will receive a follow-up e-mail from NIH to complete your registration. You must complete that step in order to be fully registered.

Questions? Please contact Phyllis Gale, Sponsored Project Office, by phone at x6618 and via e-mail at PMGale@lbl.gov.

NIH Policy on Late Submission of Grant Applications

Notice Number: **NOT-OD-08-027** - (See Companion Notice NOT-OD-08-026)

Key Dates

Release Date: January 4, 2008

Issued by

National Institutes of Health (NIH), (http://www.nih.gov/)

Purpose

This notice is a companion to NOTICE OD-08-026 that announces a new plan for continuous submission of certain types of applications from appointed members of NIH Study Sections. This notice consolidates information from previous notices (OD-07-026 and OD-06-086) into one document.

On Time Submission

NIH expects that grant applications will be submitted on time. Standard dates are listed at: http://grants.nih.gov/grants/funding/submissionschedule.htm.

- For applications that are required to use paper format these are submission or postmark dates, applications are on time if they are sent on these dates.
- For applications that are required to use electronic submission this requires successful submission to Grants.gov by 5 p.m. local time on the date indicated.
- For **both paper and electronic submissions,** when these dates fall on a weekend or holiday, they are extended to the next business day. However, Requests for Applications (RFAs) and Program Announcements with Special Referral Considerations (PARs) with special receipt dates **always** must be **received (by Grants.gov for electronic applications and the Center for Scientific Review for paper applications)** on the dates designated in the announcement to be on time. This is clearly noted in the website above and in the text of each RFA/PAR.

Late Applications

The long standing NIH policy on late applications is stated in the application instructions (SF 424 R&R, PHS 398, PHS 416).

- Permission for a late submission is not granted in advance.
- In rare cases, late applications will be accepted but only when accompanied by a cover letter that details compelling reasons for the delay.
- While the reasons are sometimes personal in nature, an objective evaluation of their merit requires that some details be provided. It is not sufficient, for example, to state simply that there has been an unforeseen circumstance that delayed submission. Specific information about the timing and nature of the cause of the delay is necessary so that a decision can be made. Only the explanatory letter is needed; no other documentation is expected.

As noted in the schedule above, NIH utilizes a variety of submission dates for different grant mechanisms. NIH will consider accepting late applications based on the acceptability of the explanation and the processing time required for two different kinds of submission/receipt dates.

- **Regular Standard Submission/Receipt Dates**: January 25, February 5, February 12, February 16, February 25, March 5, March 12, March 16, May 25, June 5, June 12, June 16, June 25, July 5, July 12, July 16, September 25, October 5, October 12, October 16, October 25, November 5, November 12, November 16. To be considered applications must be **received** at the NIH within two weeks of the standard submission date.

- **Expedited Standard Submission/Receipt Dates:** April 5, April 8, April 12, April 13, May 7, August 5, August 8, August 12, August 13, September 7, December 5, December 8, December 12, December 13, and January 7. To be considered applications must be **received** at the NIH within one week of the standard submission date.

- NIH will not consider accepting late applications for the **Special Receipt Dates for RFAs and PARs. This includes the special receipt dates (March 20, July 20, and November 20) for resubmission (formerly â€œamendedâ€)**

applications that are part of the New Investigator Initiative (http://grants1.nih.gov/grants/guide/notice-files/NOT-OD-07-083.html).

- NIH does not expect to accept any applications received beyond the window of consideration.

The windows of time for consideration of late applications have been carefully chosen so that the late applications can be processed with the cohort of on-time applications. In all cases, when the regular standard submission date or expedited submission date falls on a weekend or federal holiday and is extended to the next business day, the window of consideration for late applications will be calculated from that business day. **Note that the late window always ends in a receipt (not submission) date for both paper and electronic applications.**

Reasons for a Late Submission

NIH will consider all late applications received within the window of time specified above but will not automatically accept all of them. The reasons for the delay will be carefully considered by the Division of Receipt and Referral at the Center for Scientific Review and a decision made. In unusual cases the reasons provided will be considered by senior staff of CSR; Institutes/Centers will be consulted for applications that are their review responsibility. Applications submitted within the window with reasons that are not found to be acceptable will be not be assigned for review and funding consideration.

Late applications have been accepted for reasons such as: death of an immediate family member of the Principal Investigator, sudden acute severe illness of the Principal Investigator or immediate family member, temporary or ad hoc service on a NIH extramural peer review group, service on a NIH Board of Scientific Counselors or Advisory Board/Council, or large scale natural disasters. For multiple PD/PI applications (OD-07-017) this would apply to any of the PD/PIs involved. The late application policy applies to submissions other than R01, R21, and R34 by appointed members of CSR and other NIH Study Sections as PD/PI(s). However, explanations are not additive â€“ an application involving multiple PD/PIs with problems or multiple issues for a single PD/PI is still expected to be received within the appropriate window.

Examples of reasons that have **not** led to the acceptance of a late application are: heavy teaching or administrative responsibilities, relocation of laboratory, ongoing or non-severe health problems, personal events, or review service for participants other than a PD/PI, participation in review activities for other Federal agencies or private organizations, attendance at scientific meetings, or having a very busy schedule.

It is important to emphasize that these various examples are just that, examples. No NIH staff member whether in the Center for Scientific Review or any of the other Institutes/Centers has the authority to give permission in advance for a late application. Contacting the Division of Receipt and Referral or any other component of the NIH will not lead to either permission to submit late or an evaluation of the acceptability of the reasons for a delay.

Inquiries

Inquiries may be addressed to

Division of Receipt and Referral
Center for Scientific Review
6701 Rockledge Drive MSC 7720
Bethesda, MD 20892-7720
Voice: (301) 435-0715
Fax: (301) 480-1987

Weekly TOC for this Announcement
NIH Funding Opportunities and Notices

Modified Application Submission, Referral and Review for Appointed NIH Study Section Members

Notice Number: **NOT-OD-08-026** (See Companion Notice NOT-OD-08-027)

Key Dates

Release Date: January 04, 2008

Issued by

National Institutes of Health (NIH) (http://www.nih.gov/)
Center for Scientific Review (CSR), (http://cms.csr.nih.gov)

Purpose

The National Institutes of Health is implementing an alternate plan for submission and review of research grant applications from appointed members of chartered NIH study sections in order to recognize their outstanding service and to minimize disincentives to study section service. The timing of Study Section meetings and most standard due dates for grant applications overlap (http://grants1.nih.gov/grants/funding/submissionschedule.htm). Thus, reviewers are under pressure to review applications and prepare their own applications simultaneously.

Beginning February 5, 2008 the alternate submission and review procedures, described below, will be available for appointed members of NIH Study Sections. This alternate process is limited to 1) appointed members of chartered standing Study Sections and 2) applications that would normally be received on standard submission dates (but not special receipt dates). Depending on the timing of the submission and the number of other similar applications received during the pre-meeting time window, NIH staff will decide if the application will be reviewed in a different standing Study Section or in a Special Emphasis Panel (SEP). These applications will be processed and assigned to NIH Institute Review Offices or CSR Integrated Review Groups (IRGs) using the standard referral guidelines (http://cms.csr.nih.gov/PeerReviewMeetings/CSRIRGDescription/).

This continuous submission process will enable appointed members of chartered NIH Study Sections to submit their applications as soon as they are fully developed. The applications will be reviewed no later than 120 days after receipt.

NIH plans to analyze this opportunity on an ongoing basis in order to assess feasibility and satisfaction.

Eligibility:

- Only appointed regular (not temporary or ad hoc) members of chartered CSR and other NIH study sections may take advantage of the continuous submission process. Appointed members are those who are approved for service on the Study Section by the Director of NIH, typically for a four-year term. Multi-PI applications are eligible if one or more of the Program Directors/Principal Investigators (PD/PIs) is an appointed member of a Study Section
- Appointed regular members of NIH Study Sections may participate up to one and a half months after the date of retirement from regular service on the committee typically on June 30. Continuous submission is thus permissible until August 16 of that year.
- This applies only to R01, R21 and R34 applications submitted for the standard due dates (http://grants1.nih.gov/grants/funding/submissionschedule.htm). Continuous submission is **NOT** available for applications submitted for special dates (RFAs, some PARs) or other activity codes.
- Continuous submission is limited to R01, R21 and R34 (including AIDS-related) applications. While most of these applications will be reviewed at the Center for Scientific Review (CSR), some R01, R21 and R34 applications will be reviewed in chartered study sections at other Institutes and Centers (ICs) of the NIH.
- This does **not** apply to applications for which appointed members have a role other than PD/PI, including appointed members serving as sponsors for fellowship applications or mentors for career award applications. Such applications are expected to be submitted on the normal due dates. Any requests for late acceptance must relate to the fellow or PD/PI of the fellowship or career award (not a member or sponsor).
- This does **not** apply to individuals who serve as reviewers for Federal agencies other than the NIH or private organizations.

- Temporary or ad hoc members of CSR study sections will still be eligible for the late submission window. Members of NIH Boards of Scientific Counselors or NIH Advisory Boards or Councils are also eligible for that window. A companion Notice updates the NIH policy on Late Applications (NOTICE OD-08-027).
- If desired, appointed members of chartered study sections may request review by a standing study section (different from the one they are serving on), but those applications must conform to regular submission deadlines. As such, the late window of consideration for members will apply (NOTICE OD-08-026).

Processing and Review Schedule

All applications submitted in response to this opportunity will be reviewed no later than 120 days after receipt. Because of the need to assign an Advisory Council date, the following schedule will be followed. However, applications may be moved to earlier councils following review as timing permits.

Schedule for Assignment to Advisory Council Rounds

Council Round	Non-AIDS applications	AIDS applications
May	August 17 - December 16	October 8 - February 7
October	December 17 - April 16	February 8 - June 7
January	April 17 - August 16	June 8 - October 7

Inquiries

A series of Frequently Asked Questions has been prepared (see http://cms.csr.nih.gov/ResourcesforApplicants/ContinuousSubmissionFAQ.htm).

Inquiries may also be addressed to

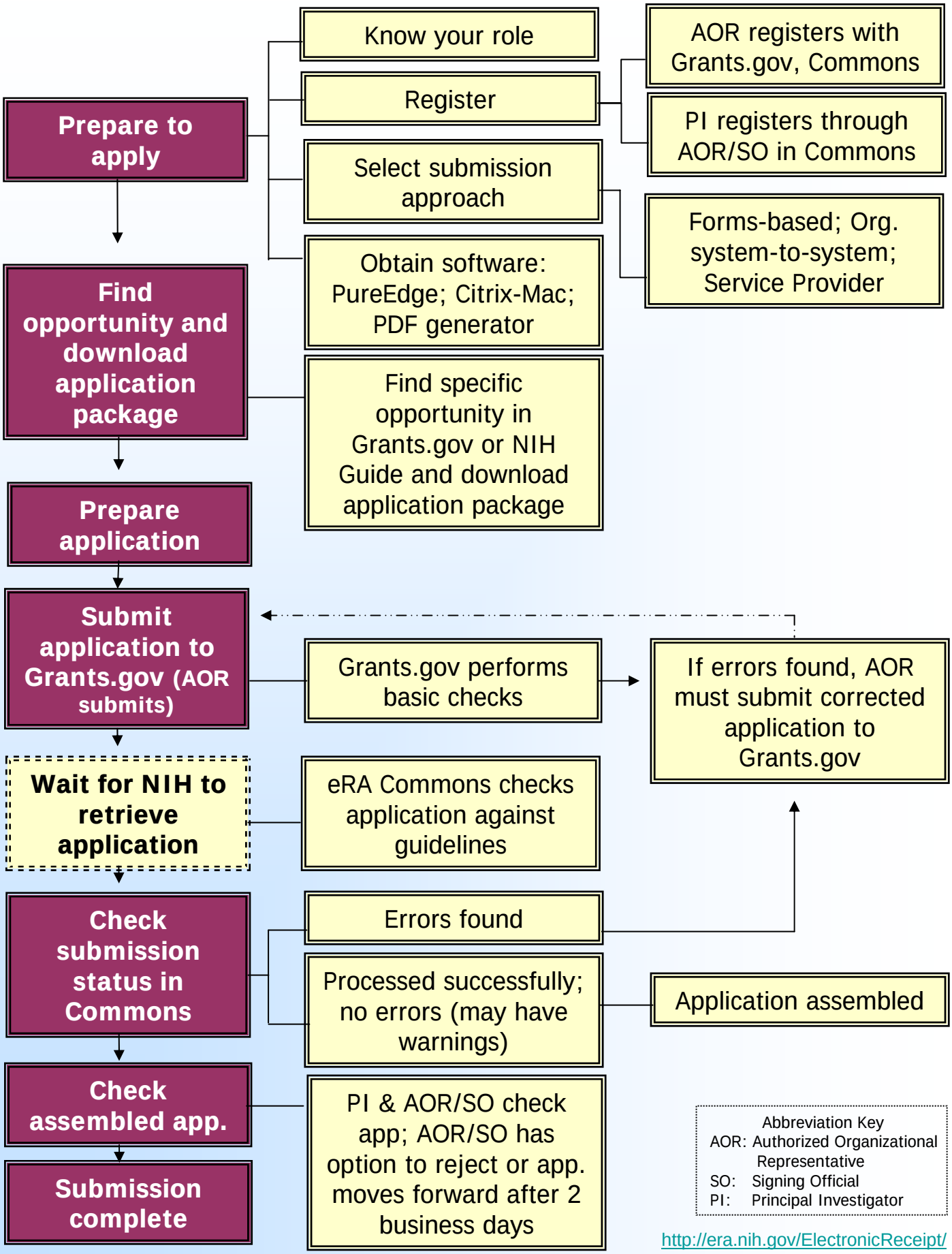
Division of Receipt and Referral
Center for Scientific Review
6701 Rockledge Drive MSC 7720
Bethesda, MD 20892-7720
Voice: (301) 435-0715
Fax: (301) 480-1987

Weekly TOC for this Announcement
NIH Funding Opportunities and Notices

Department of Health and Human Services

National Institutes of Health (NIH)
9000 Rockville Pike
Bethesda, Maryland 20892

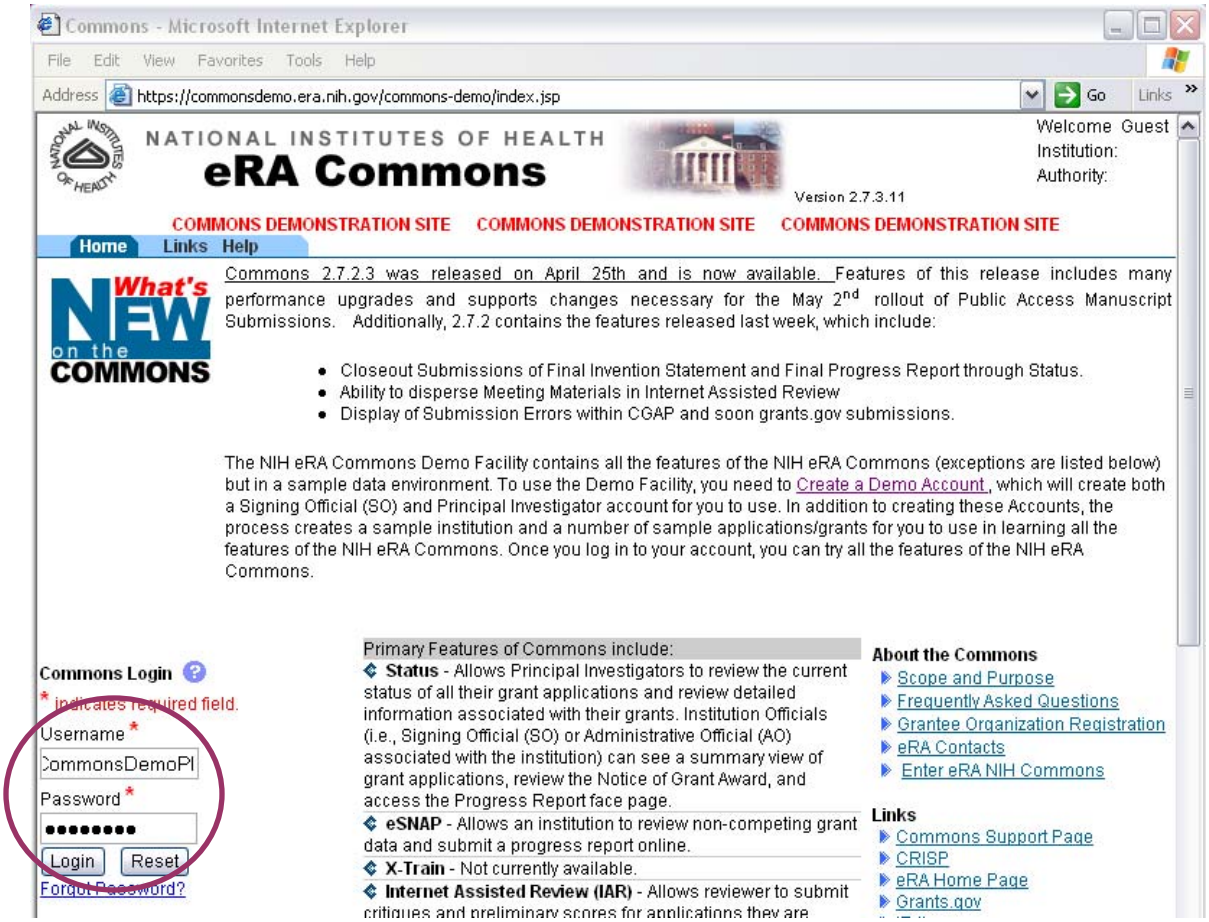
Electronic SF424 (R&R) Application Process Through Grants.gov



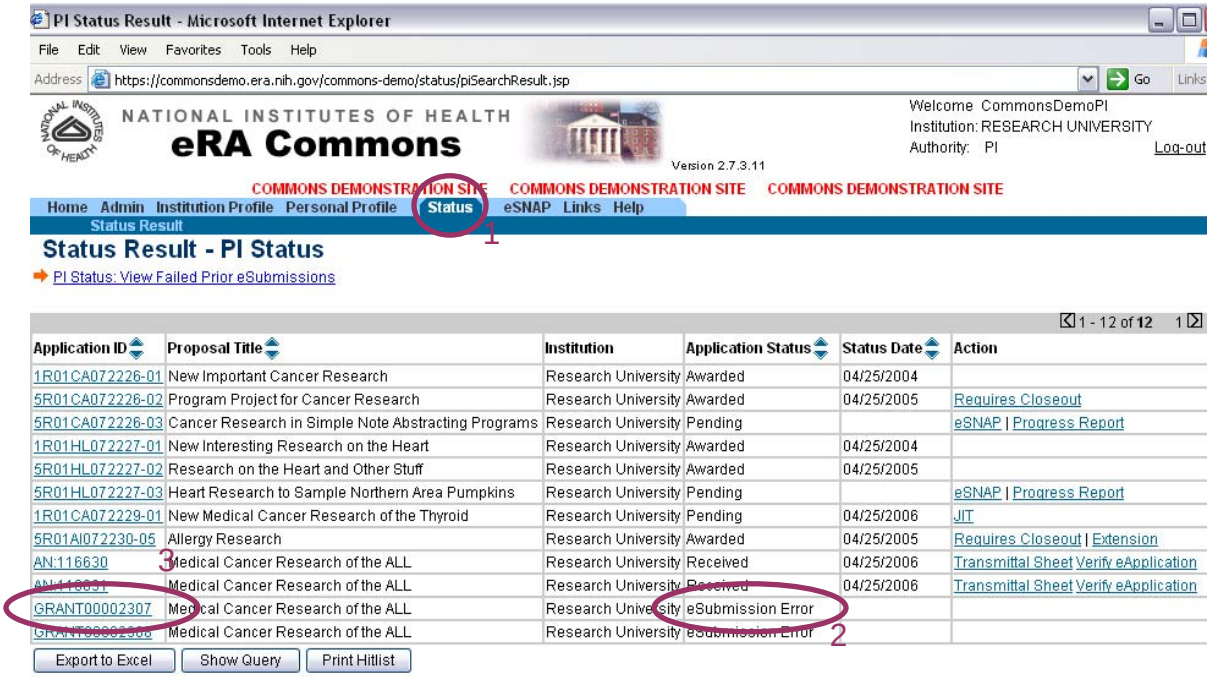
Checking Submission Status in Commons - PI

For the purposes of documenting these steps the eRA Commons Demo site will be used. The steps are the same in production.

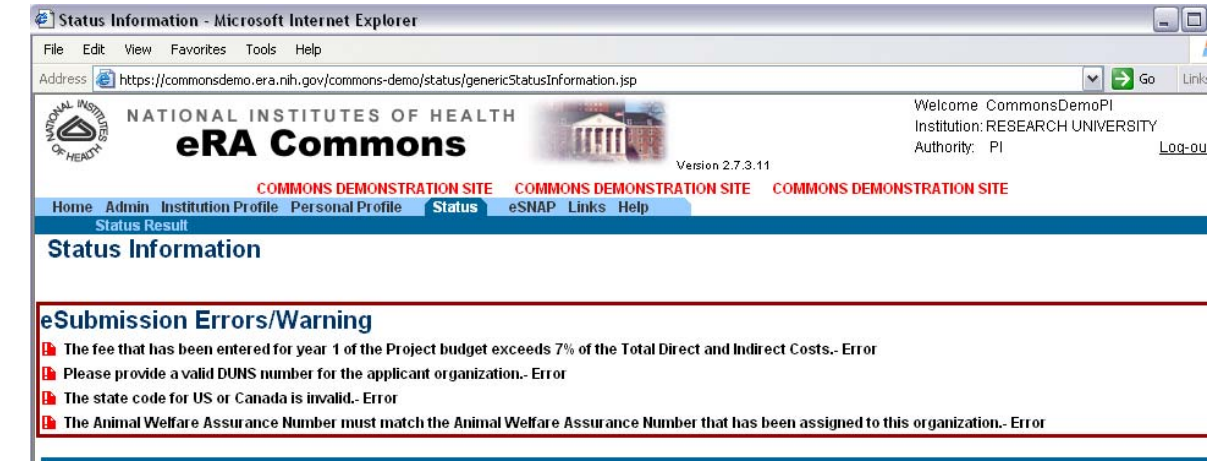
1. Login to eRA Commons with your Principal Investigator (PI) account Username and Password.



2. Click the Status tab to view the PI status (1). Find application that shows “eSubmission Error” in Application Status (2). Follow the link on the Application ID to see specific error/warning messages (3).



3. View the list of eSubmission Errors/Warnings. **Warnings** can be fixed at the applicant’s discretion but **do not require action** for the application to move on. **Errors must be addressed before the application can move on.**



4. Applicants should refer to the application guide and announcement instructions for guidance on the expected values for specific fields.

   The Avoiding Common Errors section of the Electronic Submission of Grant Applications website is another valuable source of information.

   If (after using the available resources) you are unable to identify and address the errors in your application, please contact the eRA Helpdesk via Web Support at http://ithelpdesk.nih.gov/eRA/.

5. After making all corrections to the application forms, the entire changed/corrected application must be resubmitted through Grants.gov. Once an error-free application is received, the eRA system will assemble the application and make the grant image available to the PI and Signing Official for a final check.

National Institutes of Health/Office of Extramural Research

Exchange Services
Notes, Tips and Validations
for Grants.gov Components

December 12, 2008
Version 3.6
Final

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Filling Out an Application for NIH Grants

How applicant institutions submit a grant application to the National Institutes of Health (NIH) is changing from mailing in a paper PHS 398 application to submitting the application electronically through Grants.gov using the new SF424 (R&R) application. For information about the timetable for each mechanism's conversion to electronic submission and other information, go to http://era.nih.gov/ElectronicReceipt/.

For electronic submission, applicant institutions can submit applications on PureEdge™ forms downloaded from Grants.gov, build a system-to-system interface with Grants.gov or work with a commercial service provider. Regardless of submission method, Grants.gov electronically performs a simple validation against the application. If it passes inspection, the application is put in a queue, which the National Institutes of Health (NIH) then pulls into its system.

The NIH performs a more specific and detailed electronic check of the application against the instructions in the application guide and funding opportunity announcements. If the application passes the validation check without errors, the NIH sends an email to the Authorized Organization Representative (AOR)/ Signing Official (SO) and Project Director (PD)/Principal Investigator (PI). The email includes the NIH application tracking number and notification that both the SO and PI have two days to view the application image on the eRA Commons before the application automatically moves to Receipt and Referral.

If the application doesn't pass the validation check—usually because NIH instructions are not being followed—NIH sends the AOR/SO and PD/PI an email saying there are error messages and/or warnings:

- **Error message:** All errors must be fixed to complete the submission process. Once all errors are addressed, the applicant organization must submit the entire corrected application through Grants.gov as a changed/corrected application.
- **Warning:** Warnings do not stop the application from being accepted by the eRA System; however, each warning should be looked at carefully to avoid delays or issues later on in the peer review process.

The AOR/SO and PD/PI can log onto the eRA Commons to view the error codes and warnings. **Note:** since email can be unreliable, it is the applicant's responsibility to periodically check the eRA Commons for the status of the application after notification is received that NIH has pulled it from the Grants.gov queue.

So how can one be sure that the application passes all validation checks and results in no error messages or warnings? Carefully read and follow the application guide and announcement-specific instructions. Be sure that you fill out all sections to the best of your ability and that you include all attachments. NIH requires that all text attachments be in PDF format. Be clear about what is required for the type of application you are submitting. Make sure you observe the page limits for the different attachments as defined in the application and announcement. Confirm that you haven't exceeded direct cost limitations. Don't take shortcuts.

Here are some tips for filling out each section of the application. The NIH requires that applications be submitted using the SF424 (R&R) package, as well as supplemental, agency-specific forms identified as Public Health Service (PHS) application forms. Note that included in each funding opportunity announcement is the complete application forms package and guide.

After the application package is submitted, the eRA system will assemble the grant image, generate a table of contents and include headers (PI's name) and footers (page numbers) on all pages.

The following notes, tips, validations and errors/warnings address SF424 Research & Related (R&R) and PHS 398 specific components of an NIH application package.

SF424 (R&R)

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Type of Submission (Pre-App, App, Changed App)**	1.1.1	For non-X02 submissions, do not accept 'Pre-application' as submission type (Minimum Validations)	'Pre-application' (SF 424 RR cover page, Type of Submission) is not a recognized submission type for these applications.	
		1.1.2	For X02 submissions, do not accept 'Application' as submission type	'Application' is not a recognized submission type for X02 applications. Please select 'pre-Application' as the type of submission on the SF 424 RR Cover page.	
		1.1.3	Do not accept 'Application' submission type if there is an associated prior submission. Find associated prior submission by matching on PI Commons account, institution, and project title for the same council round. (Minimum Validations)	This application is a duplicate of a previous submission for the same council round. Please submit again using the 'Changed/Corrected Application' Type of Submission on the SF 424 RR cover page.	
		1.1.4	Do not accept X02 pre-application submission type if there is an associated prior submission. Find associated prior submission by matching on PI Commons account, institution, and project title for the same council round.	This application is a duplicate of a previous submission for the same council round. Please resubmit using the 'Changed/Corrected Application' Type of Submission on the SF 424 RR cover page.	
		1.1.5	Do not accept changed/corrected application if the original application has been verified. (Minimum Validations)	Your application has already been submitted for processing by NIH staff. Please contact the Scientific Review Administrator (SRA) for permission to submit corrections.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.1.6	Do not accept changed/corrected application if the PI, DUNS, Project Title, and council round are a duplicate of another application and the opportunity ID is not the same as that of the other application. (Minimum Validations)	This application is a duplicate of a previous submission for the same council round, but in response to a different announcement.	
SF424 (R&R)	**Date Submitted**	1.2.1	If Phase II SBIR/STTR, and Phase I identified as NIH grant, provide warning if date submitted is more than 2 years after Phase I project period end date	Phase II SBIR/STTR applications should be submitted within 6 receipt dates after the expiration of the Phase I budget.	
SF424 (R&R)	**Date Received by State**				
SF424 (R&R)	**State Application Identifier**				
SF424 (R&R)	**Date Received by Grants.gov**				
SF424 (R&R)	**Federal Identifier**	1.7.1a	If a resubmission or renewal, this component is mandatory (Minimum Validations)	For resubmissions (amended applications) and renewals (competing continuations), the Federal Identifier must be included. Please include the only IC and serial number of the prior grant number in the Federal Identifier field on the SF 424 RR Cover page (e.g., CA123456).	
		1.7.1b	If a revision, this component is mandatory (Minimum Validations)	For revisions, the Federal Identifier must be included. Please include the IC and serial number of the parent grant number in the Federal Identifier field on the SF242 (R&R) Cover page (e.g., CA123456).	
		1.7.2	If a new Phase II SBIR/STTR, this component is mandatory	For Phase II SBIR/STTR submissions, the Federal Identifier must be included. Please include the IC and serial number of the prior grant number in the Federal Identifier field on the SF424 RR Cover page (e.g., CA123456).	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.7.3	If a renewal Phase II SBIR/STTR, this component is mandatory	For Phase II SBIR/STTR submissions, the Federal Identifier must be included. Please include the IC and serial number of the prior grant number in the Federal Identifier field on the SF424 RR Cover page (e.g., CA123456).	
		1.7.4	If Phase II SBIR/STTR, and Phase I grant number is found in NIH database, provide warning if Phase I grant has not been awarded.	Phase II SBIR/STTR applications may be submitted only if the Phase I grant has been awarded.	
		1.7.5	If a resubmission, revision, or renewal, or a new Phase II SBIR/STTR, components of grant number must be 'parsable'. Components are <application_type> <mechanism> <institute> <serial number>-<support year><suffix code) (example: 1R01GM072828-01A1) –Application Type is a one-digit number. –Mechanism is a letter followed by a two-digit number. –Institute (IC) consists of two characters. –Serial number is a number that has been assigned sequentially within an IC (must be followed by a dash). –Support year is anywhere from 1 to 99. –Suffix code will start with an 'A' or an 'S'. –At least the IC and serial number must be included. (Minimum Validations)	Federal Identifier format (SF 424 RR Cover page) is not valid. Please include only the IC and serial number of the prior grant (e.g., CA123456).	
		1.7.6	If a resubmission, revision, or renewal, or a new Phase II SBIR/STTR, the prior grant number must exist in the NIH system. Matching is performed against Major Activity Code, Institute/ Center and Serial Number. In cases where the major activity code of the prior is 'U', matching is performed only on IC and serial number. (Minimum Validations)	The Federal Identifier that you have entered (SF 424 RR Cover page) is not a grant number that has been previously assigned.	
		1.7.7	If a resubmission, revision, or renewal, or a new Phase II SBIR/STTR, mandatory components are IC and serial number. (Minimum Validations)	You must include the <missing component> of the prior grant in the Federal Identifier field on the SF 424 RR Cover Page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.7.8	If PIChangeIndicator not set, check if PI on this submission has same Commons Account as PI assigned to the prior grant. If not, provide warning if last name of PI on prior grant matches last name for PI on current application. Provide error if Commons Account doesn't match and last name of PI on prior grant doesn't match last name for PI on current application. Ignore case, spaces, and punctuation on match.	The prior grant entered as the Federal Identifier (SF 424 RR Cover page) is not associated with the eRA Commons account for this PI. If this application involves a change of PI, please indicate 'Change of PI' on the PHS 398 Checklist page. If this is not a change of PI, this application will be received by the agency, but may be returned after internal processing. The prior grant that has been entered as the Federal Identifier (SF 424 RR Cover page) is not associated with this PI. If this application involves a change of PI, please indicate 'Change of PI' on the PHS 398 Checklist page.	A prior application is considered withdrawn if the appl status code for the application falls within appl status group 'W' (in appl_statuses_t), *unless* the appl status code is 30. The prior grant for a resubmission is only within the same support year as the most recent prior application. Any prior grants with earlier support years are not considered part of the validations.
			K applications are exempt from these validations (both error and warning).		
		1.7.9	For a resubmission, a summary statement must have been mailed for the prior grant, unless the prior grant has been withdrawn without a summary statement. (Minimum Validations)	A resubmission (an amended application) cannot be submitted until the Summary Statement for the previous application has been released by the agency.	
		1.7.10	For a resubmission, the prior grant must not have been awarded, unless it has been identified as interim funding. (Minimum Validations)	A resubmission (an amended application) cannot be submitted if a prior version in the same support year has been awarded.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.7.11	For a resubmission, if the prior grant suffix code = 'A2', display a warning (default for mechanisms not otherwise defined).	The number of resubmissions for an application is normally limited to two. This application will be received by the agency, but may be returned after internal processing.	
		1.7.12	For a resubmission, of an R36 application (activity code on funding opportunity = 'R36'), prior grant suffix code must not = 'A2'.	This application has exceeded the number of resubmissions permitted and cannot be accepted.	
		1.7.13	For a resubmission, prior grant suffix code must not = 'A3'.	This application has exceeded the number of resubmissions permitted and cannot be accepted.	
		1.7.14	For a revision, the parent grant must be awarded. (Minimum Validations)	The parent grant for a revision must be awarded. The parent grant for this submission is not a funded grant.	
		1.7.15	Ignore entries in this field for a DP1, DP2 or DP3 application.		
		1.7.16	For resubmissions, renewals, and revisions, provide a warning if the activity code of the prior grant doesn't match the activity code of the announcement. SBIR/STTR, R21/R33, and R33 are exempted from this validation.	The mechanism (activity code) of the prior submission (referenced by the Federal Identifier on the SF 424 RR Cover page) does not match the mechanism of the Funding Opportunity Announcement (FOA), <activity code>. Please check the Federal Identifier provided for your application to ensure you are including the correct prior information and the FOA to ensure you are submitting to the correct opportunity. This application will be processed but there may be a delay in referral.	
		1.7.17	For a 'Phase II' SBIR/STTR, validations on parsing Federal Identifier, requiring IC and serial number, and identifying the number as existing in the NIH system are *warnings* only.	Error message text is the same as the items above.	These need to be warnings, since it is possible to submit a phase II application where the phase I was funded externally (or funded as an NIH contract, not a grant).

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Applicant Information, Organizational DUNS**	1.8.1	Must match DUNS recorded for IPF in Commons. Validate the leftmost 9 characters only, discarding any characters submitted in places 10-13. For comparison purposes, treat trailing zeroes after leftmost 9 characters as blanks. (Minimum Validations)	The DUNS number you have provided in the SF 424 RR Cover page (item 5), Applicant Information) does not match the number in the eRA Commons profile for your organization. The SO/AOR should make sure the correct DUNS number has been entered in the eRA Commons. Instructions on editing institutional profiles are available at https://commons.era.nih.gov/commons-help/189.htm.	If application is from domestic institution of higher education, set appls_t.external_org_WIP_flag= 'Y'; if not, set appls_t.external_org_WIP_flag= 'N'. Domestic institution is country_seq_num in external_org_addresses_t =231 (for the external_org_id where addr_type_code='MLG'). Higher education is external_orgs_t.org_type_code= 10.
		1.8.2	For a revision, provide a warning if it doesn't represent the same organization as the parent grant.	The parent grant may be associated with a different organization (based on the Organization DUNS provided on the SF 424 RR Cover page). Revisions should only be submitted for the same organization as the parent grant. This application will be accepted by the agency, but may be delayed in the peer review process.	
		1.8.3	Organization must not be 'closed' in IMPAC II database.	The DUNS number you have provided in the SF 424 RR Cover page (item 5, Applicant Information) matches an organization in the eRA Commons that has been marked as 'closed'—i.e., it is no longer recognized as an active organization. Please resubmit using a DUNS number for an active organization.	Find closed records in external_orgs_t with a record_status_code of 'C'.
SF424 (R&R)	**Applicant Information, Legal Name**		None		Display in grant image as submitted; store in database as reflected in IPF associated with PI Commons account and org. DUNS. Long-term, change length in eRA db to 120 characters.

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Applicant Information, Department**		None		
SF424 (R&R)	**Applicant Information, Division**		None		
SF424 (R&R)	**Applicant Information, Street 1 and 2**	1.12.1	If either line>50 characters, truncate (Minimum Validations)		Long-term, change eRA db to 55 chars.
SF424 (R&R)	**Applicant Information, City**		None		
SF424 (R&R)	**Applicant Information, County**		None		
SF424 (R&R)	**Applicant Information, State**	1.15.1	Required if country is US. (Minimum Validations)	The Applicant Information State on the SF 424 RR Cover page must be supplied for US addresses.	
		1.15.2	If country not US must be blank. (Minimum Validations)	The Applicant Information State on the SF 424 RR Cover page should be blank for all countries other than the United States.	
		1.15.3	Transform to 2-char abbreviation before validating and storing. If state name can't be transformed, give error. (Minimum Validations)	The Applicant Information State on the SF 424 RR Cover page is not a valid state name.	
SF424 (R&R)	**Applicant Information, Province**	1.16.1	Required if country is Canada. (Minimum Validations)	The Applicant Information province on the SF 424 RR Cover page must be supplied for Canadian addresses	Province should be mapped into the same database location as state.
		1.16.2	If country not Canada, must be blank. (Minimum Validations)	The Applicant Information Province on the SF 424 RR Cover page should be blank for all countries other than Canada	
		1.16.3	Transform to 2-char abbreviation before validating and storing. If province name can't be transformed, give error. (Minimum Validations)	The Applicant Information Province on the SF 424 RR Cover page is not a valid province name.	
SF424 (R&R)	**Applicant Information, Zip Code**	1.17.1	Required if country is US. (Minimum Validations)	The Applicant Information Zip Code on the SF 424 RR Cover page was not entered.	Long-term, change in eRA db to 13 characters.

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.17.2	Must be 5 or 9 numeric digits if country is US. (Minimum Validations)	The Applicant Information Zip Code on the SF 424 RR Cover page must be entered in 5-digit or 9-digit format.	
		1.17.3	For country other than US, if >9 characters, truncate (remove any dashes before truncating). (Minimum Validations)		
SF424 (R&R)	**Applicant Information, Country**	1.18.1	For an R13 application (activity code on funding opportunity = 'R13' or 'U13'), provide a warning if country is not US	The Applicant Organization for a Conference Grant should be located in the US. This application will be accepted by the agency, but may be delayed in the peer review process.	
		1.18.2	For an R15 application (activity code on funding opportunity = 'R15') return an error if country is not US	The Applicant Organization for an AREA Grant must be located in the US.	
		1.18.3	For an SC1, SC2, SC3, S10, S11, S21, S22, DP2, C06, G08, UC6, G20, or K application, or for an application in response to a VA announcement, return an error if country is not US	The Applicant Organization for this application must be located in the US.	
		1.18.3.1	For an application in response to a VA announcement, return an error if country is not US	The Applicant Organization for this application must be located in the US.	
		1.18.4	For an R25 (LV) application, return a warning if country is not US	The Applicant Organization for this application is usually located in the US. This application will be accepted by the agency, but may be delayed in the peer review process to determine the eligibility of a foreign Applicant Organization.	
		1.18.5	For an R18 (LV) or U18 (LV) application, return a warning if country is not US	The Applicant Organization for this application should be located in the US. This application will be accepted by the agency, but may be delayed in the peer review process.	
		1.18.6	Must be a valid ISO 3166-1 alpha-3 country code.	The Applicant Information country code provided (<Country>) on the SF 424 RR Cover page is not a valid ISO 3166-1 alpha-3 country code.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Person to be Contacted**	1.19.1	If the combination of all items in this component is more than 30 characters, truncate. Display in grant image as submitted. (Minimum Validations)		Long-term, change in eRA db for Contact Name to accommodate the way it is submitted through Grants.gov.
SF424 (R&R)	**Person to be Contacted, Phone Number**		None		
SF424 (R&R)	**Person to be Contacted, Fax Number**		None		
SF424 (R&R)	**Person to be Contacted, e-mail**	1.22.1	e-mail is required	The e-mail address for the Person to Be Contacted, listed on the SF 424 RR Cover page, is required.	
		1.22.2	Must contain a '@', with at least 1 and at most 64 chars preceding and following the '@'. Control characters (ASCII 0 through 31 and 127), spaces and special chars < > ( ) [ ] \ , ; : are not valid.	The submitted e-mail address for the Person to Be Contacted, (listed on the SF 424 RR Cover page,) <Email>, is invalid. Please enter email addresses in the format username@domainname.com	
SF424 (R&R)	**Employer Identification**	1.23.1	If >12 characters, truncate (no warning). (Minimum Validations)		
		1.23.2	If <13 characters, provide a warning if it is not either 9 characters or 12 characters (after dashes are removed).	The Employer Identification Number on the SF 424 RR Cover page should be a length of 9 characters or 12 characters. The application will be accepted by the agency.	
		1.23.3	If 12 characters, don't map to database if EIN number doesn't exist in eRA database. Strip off dashes before doing comparison.		
		1.23.4	If 9 characters, add a '1' to the beginning of the number and 'A1' to the end (for a total of 12 characters), don't map to database if resulting EIN number doesn't exist in eRA database. Strip off dashes before doing comparison.		

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Type of Applicant (other, woman owned, disadvantaged)**	1.24.1	For an SBIR/STTR application, must be 'Small Business'.	For an SBIR/STTR application, the Type of Applicant (SF 424 RR Cover page, item 7) must be 'Small Business'.	Design/mapping note: when the applicant type is "O - Small Business", set small_business_code to 'N', but do not supersede any value that is the result of mapping the women-owned or socially-economically-disadvantaged qualifiers. In other words, default when applicant type is "O" should be 'N'' instead of "null". This should be overwritten if the women-owned and socially-economically-disadvantaged indicators need to record either a W, M, or B in this field.
SF424 (R&R)	**Type of Application (New, Resub, Renewal, Contin, Revision)**	1.25.1	Must be either New, Revision, Resubmission, or Renewal (Minimum Validations)	<Type of Application> (SF 424 RR Cover page, item 8) is an invalid Type. The Type must be New, Revision (for supplements), Resubmission (for amended applications), or Renewal (for competing continuations).	For a revision, define parent grant by finding the most recent type 1, type 2, or type 9 that matches on the major activity code, IC and serial number provided in the Federal Identifier, where the Project Start Date on the parent is earlier than or equal to the revision's Project Start Date, and the Project End Date on the parent is later than or equal to the revision's Project End Date. Subprojects and other revisions should be excluded from consideration as parent grants. In cases where the major activity code of the prior is 'U',
		1.25.2	Renewal is not a valid type for a Phase I SBIR/STTR, SC2, S11 X01, X02, R03, R21, R34, U34, C06, UC6, G08, G13, G20, or mentored K application.	A renewal (competing continuation) cannot be submitted for this application.	
		1.25.3	Provide warning if renewal is submitted for an R21/R33 combination or for a UH2/UH3 combination.	Renewal (competing continuation) applications are accepted if specifically allowed in the Funding Opportunity Announcement (FOA). If the FOA does not explicitly allow renewals, this application may be delayed in the review process or rejected.	
		1.25.4	Revision is not a valid type for an S10, X01, or an X02 application.	A revision (supplement) cannot be submitted for this application.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.25.5	For a DP1, DP2 or DP3 application must be New.	Resubmissions, renewals, and revisions cannot be submitted for this application. This is indicated in the Type of Application on the SF 424 RR Cover page.	matching is performed only on IC and serial number. Map type of application to database.
		1.25.6	For an SC1 application, provide error for a renewal if there has already been an awarded renewal for this grant.	SC1 applications may not be submitted if a renewal (a competing continuation) has been awarded in the past.	
		1.25.7	For an SC1 application, provide error for a renewal if the PI has been awarded any R01 grants, whether as a single PI or as a multiple PI.	The PI, <first name last name) has been awarded R01 grants in the past. SC1 applications may not be submitted if the PI has been awarded any R01 grants.	
SF424 (R&R)	**If revision, increase award, decrease, etc.**		None		
SF424 (R&R)	**Name of Federal Agency**				
SF424 (R&R)	**Catalog of Federal Domestic Assistance Number**				
SF424 (R&R)	**Submitted to other agencies?**				
SF424 (R&R)	**Descriptive Title**	1.30.1	Truncate if >81 characters (Minimum Validations)		Long-term, expand eRA db to 200 chars
		1.30.2	For a revision, must be the same as the project title on the parent grant. Do not include leading or trailing spaces or any punctuation in the comparison.	The project title for this revision (SF 424 RR Cover page, item 11) is not the same as the project title on the parent grant. For a revision, the project title must be the same as the project title on the parent grant.	
SF424 (R&R)	**Areas Affected by Project**				
SF424 (R&R)	**Proposed project start date**	1.32.1	Must be later than current date (Minimum Validations)	The Proposed Project Start Date (SF 424 RR cover page, item 13) must be later than the Proposed Project Start Date.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Proposed project ending date**	1.33.1	Must be later than ProjectStartDate	The Proposed Project Ending Date (SF 424 RR cover page, item 13) must be later than the Proposed Project Start Date	
		1.33.2	For an R03 (LV), R21 (LV), or R36 application, return warning if project period is more than two years long. Define project period by time span between project period start date and project period end date as entered on the SF424 (R&R) Face Page.	The project period for this type of application is limited to two years.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable project period limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		1.33.3	For an R15, R33 (LV), R34 (LV), U34, G08, or G13 application, return warning if project period is more than three years long. Define project period by time span between project period start date and project period end date as entered on the SF424 (R&R) Face Page.	The project period for this type of application is limited to three years. The application will be accepted, but may be delayed in the peer review process.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable project period limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		1.33.4	For an R01 (LV) or R21/ R33 pair (LV) or K application, return warning if project period is more than five years long. Define project period by time span between project period start date and project period end date as entered on the SF 424 RR Face Page.	The project period for this type of application is limited to five years. The application will be accepted, but may be delayed in the peer review process.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable project period limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		1.33.5	For a DPI or DP2 application, the project period must be exactly five years long. Define project period by the number of *years* only between the project start date and the project end date.	The project period for this application must be five years. This is determined by the proposed Project Start Date and the Proposed Project Ending Date on the SF 424 RR Cover page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.33.6	Must be no more than 20 years greater than today's date.	The Proposed Project Ending Date (SF 424 RR Cover page, item 13) cannot be more than 20 years in the future.	
SF424 (R&R)	**Congressional districts of applicant**	1.34.1	Must be a valid congressional district code (after truncating). Truncation logic: Parse from left to right, and take the first two digits encountered, skipping leading zeroes (return error if no digits are encountered, but no error if only zeroes are encountered). Before validating, pad out with a leading zero if less than 2 digits are extracted in this way. Display in grant image as submitted. (Minimum Validations)	Congressional district <Congressional District> (SF 424 RR Cover page, item 14) is invalid. If the applicant organization is a foreign institution, enter all zeros. To locate your district visit http://congress.org/congressorg/dbq/officials/?lvl=L.	Long-term, expand eRA database to 6 chars.
	Congressional districts of project				
SF 424 (R&R)	**PD/PI Contact Information, name (prefix, first name, middle name, last name, suffix)**	1.36.1	Required. (Minimum Validations)		
		1.36.2	If only a Commons Account is supplied, display a *warning* to pay attention to the name that is generated in the grant image, since this will appear exactly as it is represented in the Commons.	On the SF 424 RR Cover, no name was provided for the PD/PI identified on the Senior/Key Person Profile with eRA Commons Username: <Credential>. The name listed on this person's eRA Commons account, <Commons profile name components>, will be used for this submission.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.36.3	If this *and* Commons account provided (and Commons account is recognized), provide warning if last name and first name on account doesn't match provided last name and first name. Comparison to ignore case and embedded spaces, but not embedded punctuation.	The name provided for the PD/PI on the SF 424 RR Cover, <First name, last name> does not match the name listed on the eRA Commons account: <First name, last name>. The application image will display the name as submitted here. If the name listed in the eRA Commons is not current, please update it in the eRA Commons. Instructions on updating profile information are available at https://commons.era.nih.gov/commons-help/216.htm.	Post-testing solution: If validation fails, provide warning that the Commons name (or position title) is *xxxx* and the name submitted through grants.gov is *yyyy* and we will be displaying the Commons data. Provide ability for the submitter to update their Commons account and to regenerate the image to display the updated information from the Commons account.
SF 424 (R&R)	**PD/PI Contact Information, Position/Title**	1.37.1	If there is no position/title entered on any employment record for this person and organization in Commons, store the submitted position/title in all employment records for that person and organization in the Commons.		
		1.37.2	Truncate if greater than 40 characters, before comparing to title stored in database. No warning message is needed to the submitter. (Minimum Validations)		
SF 424 (R&R)	**PD/PI Contact Information, Organization Name**				
SF 424 (R&R)	**PD/PI Contact Information, Department**	1.39.1			
SF 424 (R&R)	**PD/PI Contact Information, Division**	1.40.1			
SF 424 (R&R)	**PD/PI Contact Information, Street 1 and 2, city, state, province, zip, country, phone number, fax number, e-mail**	1.41.1	Transform province name to 2 char. abbreviation before storing. If province name can't be transformed, give an error. (Minimum Validations)	The PD/PI Profile Province on the SF 424 RR Cover is not a valid province name.	Long-term, change in ERA db for zip code to 13 characters Map the role-level HOM address for the PD/PI based on the address submitted for the PD/PI on the 424 RR Cover, instead of creating it based on the profile.
		1.41.2	Transform state name to 2 char. abbreviation before storing. If state name can't be transformed, give an error. (Minimum Validations)	The PD/PI Profile State on the SF 424 RR Cover is not a valid state name.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF 424 (R&R)	**PD/PI Contact Information, County**				
SF 424 (R&R)	**Total estimated project funding**	1.43.1	For an S10 application, display a warning if this is greater than 500k.	The direct cost request found on item 16 of the SF 424 RR Cover page is greater than 500k. The application will be processed, but a concern may be raised during review.	Design note: mapping for S10s and X02 and DP1 for budget figures should come from this element instead of from budget components. It should be mapped to appl_periods_t and to the following columns in appls_t: direct_cost_requested_amt, total_cost_requested_year1_amt, total_cost_requested_amt. (indirect_cost_requested_amt should be 0). For X02, all values will be zero. For DP1, there should be five appl periods set up in appl_periods_t, and the direct_cost_amt in each of the five years should be set as 500,000. Design note for S21/S22: mapping for budget year 1 data should come from this element instead of from budget components. Map appl_periods_t columns and the appls_t column total_cost_requested_year1_amt from this element. Map budget years 2 and on from 424 RR Budget component (budget year 1 in 424 RR component should map as budget year 2 in database, budget year 2 as budget year 3, etc.)
		1.43.2	Required for a C06, UC6, or G20 application.	Total Estimated Project Funding (SF 424 RR Cover, item 16a) is required for this application.	
		1.43.3	Must be non-zero for a C06, UC6, or G20 application.	Total Estimated Project Funding (SF 424 RR Cover, item 16a) cannot be zero.	
		1.43.4	For an X01 or X02 application, provide an error if non-zero values are entered.	Total Estimated Project Funding in section 16 on the SF 424 RR Cover page must be zero.	
		1.43.5	For an S21 or S22 application, provide a warning if zero or null.	Total Estimated Project Funding (SF 424 RR Cover, item 16a) should not be zero. The application will be processed, but a concern may be raised during review.	
		1.43.6	For a DP1 application, provide an error if not 2,500,000.	For a DP1 application, Total Estimated Project Funding (SF 424 RR Cover, item 16a) must be 2.5 million.	
		1.43.7	For a DP2 application, provide an error if greater than 1.5 million	For a DP2 application, Total Estimated Project Funding (SF 424 RR Cover, item 16a) cannot be greater than 1.5 million.	
SF 424 (R&R)	**Total federal and non-federal funds**	1.44.1	For an X01 or X02 application, provide an error if non-zero values are entered.	Total Federal and non-Federal Funds in section 16 on the SF 424 RR Cover page must be zero.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		1.44.2	Required for a C06, UC6, or G20 application.	Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) is required for this application.	
		1.43.3	Must be non-zero for a C06, UC6, or G20 application.	Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) cannot be zero.	
		1.44.4	For an S21 or S22 application, provide a warning if zero or null.	Total Federal and non-Federal Funds (SF 424 RR Cover, item 16b) should not be zero. The application will be processed, but a concern may be raised during review.	
		1.44.5	For a DP1 application, provide an error if not 2,500,000.	For a DP1 application, Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) must be 2.5 million.	
		1.44.6	For a DP2 application, provide an error if greater than 1.5 million.	For a DP2 application, Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) cannot be greater than 1.5 million.	
SF 424 (R&R)	**Estimated program income**	1.45.1	For an X01, X02, DP1 or DP2 application, provide an error if non-zero values are entered.	Total Estimated Program Income in section 16 on the SF 424 RR cover page must be zero.	
		1.45.2	Required for a C06, UC6, or G20 application.	Estimated Program Income (SF 424 RR Cover, item 16c) is required for this application.	
SF 424 (R&R)	**Subject to state executive order review?**	1.46.1	For C06, UC6, or G20 applications, a response is required in either 17a or b.	A response must be included to the question 'Is application subject to review by state executive order 12372 process' (SF 424 RR Cover page, item 17)	
SF 424 (R&R)	**State executive order review date**	1.47.1	Required if answer to 'Subject to state executive order review' is 'Yes'	A date must be entered on the SF 424 RR Cover page, item 17, if the answer to the 'Subject to state executive order review' is 'Yes'.	
SF 424 (R&R)	**Agreement and certification**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF 424 (R&R)	**Authorized representative name**	1.49.1	Truncate if first or last name>30 chars, or if suffix>5 chars. Display warning. (Minimum Validations)	The Authorized Representative <element name> (SF 424 RR Cover page, item 19) exceeds the agency character limit. The application image will display the name as submitted; the agency will store the first <database length> characters in the eRA database.	Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db)
SF 424 (R&R)	**Authorized representative position/title**	1.50.1	Truncate if >30 chars. (Minimum Validations)		Long-term, change in eRA db to 45 chars
SF 424 (R&R)	**Authorized representative organization**				
SF 424 (R&R)	**Authorized representative department**				
SF424 (R&R)	**Authorized representative division**				
SF424 (R&R)	**Authorized representative street 1 & 2, city, state, province, zip code, country, phone number, fax, e-mail**				Long-term, change in eRA db for zip code to 13 characters Province should be mapped into same database location as state.
		1.54.2	Transform province to 2-char abbreviation for province before validating and storing. If province can't be transformed, give error. (Minimum Validations)	The Authorized Representative Province (SF 424 RR Cover page, item 19) is not a valid province name.	
		1.54.3	Transform state to 2 char abbreviation for state before validating and storing. If state name can't be transformed, give error. (Minimum Validations)	The Authorized Representative State (SF 424 RR Cover page, item 19) is not a valid state name.	
		1.54.4	If zip>9 characters, truncate. Remove dashes before truncating and/or storing (Minimum Validations)		
SF424 (R&R)	**Authorized representative county**				
SF424 (R&R)	**Authorized representative signature and date**				
SF424 (R&R)	**Pre-application attachment**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
SF424 (R&R)	**Project Congressional District Attachment**				

R&R Personal Data Component

Not used by NIH. Information is pulled from PD/PI Commons contact information.

Research & Related: Project/Performance Site Location(s)

Component	Field	Rule	Validation	Error Message	Notes & Tips
Project/ Performance Site (R&R)	**Primary Location, Organization Name**	2.1.1	Allow applications to come in without this component.		
Project/ Performance Site (R&R)	**Primary Location, Street 1 and 2**				
Project/ Performance Site (R&R)	**Primary Location, City**				
Project/ Performance Site (R&R)	**Primary Location, County**				
Project/ Performance Site (R&R)	**Primary Location, State**				
Project/ Performance Site (R&R)	**Primary Location, Province**				Province should be mapped into same database location as state.
Project/Performance Site (R&R)	**Primary Location, Zip code**				
Project/Performance Site (R&R)	**Primary Location, Country**				
Project/ Performance Site (R&R)	**Location 1, Organization Name**				
Project/ Performance Site (R&R)	**Location 1, Street 1 and 2**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Project/ Performance Site (R&R)	**Location 1, City**				
Project/ Performance Site (R&R)	**Location 1, County**				
Project/Performance Site (R&R)	**Location 1, State**				
Project/Performance Site (R&R)	**Location 1, Province**				Province should be mapped into same database location as state.
Project/Performance Site (R&R)	**Location 1, Zip code**				
Project/Performance Site (R&R)	**Location 1, Country**				
Project/Performance Site (R&R)	**Additional Location(s)**				

Research & Related: Other Project Information

Component	Field	Rule	Validation	Error Message	Notes & Tips
Other Project Info (R&R)	**Human Subjects Involved?**	3.1.1	Either ExemptionNumber or AssuranceNumber must be specified if HumanSubjectsUsedQuestion is true. DP1 applications are exempt from this validation.	Either Exemption Number or Assurance Number must be provided if Human Subjects is "Yes" (Other Project Information, item 1).	
		3.1.2	If HumanSubjectsUsedQuestion is false, ExemptionNumber must not be specified. DP1 applications are exempt from this validation.	When Human Subjects is "No", Exemption Number must not be specified (Other Project Information, item 1).	
		3.1.3	If HumanSubjectsUsedQuestion is false, provide a warning if AssuranceNumber is specified. DP1 applications are exempt from this validation.	When Human Subjects is "No", Assurance Number does not apply (Other Project Information, item 1).	
		3.1.4	Must be true if Human Subjects Clinical Trial question is true.	The 'Human Subjects Involved' question (Other Project Information, item 1) must be "Yes" if the Human Subjects Clinical Trial question on the PHS 398 Cover Page Supplement is "Yes".	
		3.1.5	For S10, S21, S22 applications, display a warning if this is true.	The answer to the Human Subjects involved question (Other Project Information, item 1) should be 'No'. The application will be processed, but a concern may be raised during review.	
Other Project Info (R&R)	**IRB review pending?**				
Other Project Info (R&R)	**IRB approval date**	3.3.1	Date can't be in the future (but can be blank)	The IRB approval date (Other Project Information, item 1a) cannot be in the future.	
		3.3.2	Year of date must be greater than 1990	The year of the IRB approval date must be greater than 1990.	
Other Project Info (R&R)	**Exemption number**				Never implemented

Component	Field	Rule	Validation	Error Message	Notes & Tips
Other Project Info (R&R)	**Human subject assurance number**	3.5.1	Provide warning if it doesn't match IPF human subject assurance number for this organization. Match should be on the last 11 characters of the IPF assurance number. If the Assurance Number that is receive is exactly eight characters long and consists of all numeric digits, provide warning if after stripping off a leading 'FWA' from the number stored in the IPF (if it exists), the numbers don't match. After the comparison is made in this latter case, prefix the submitted number with 'FWA' before storing in the database.	The human subject assurance number entered in Other Project Information, item 1a, does not match what is in the eRA Commons profile for your organization. There are rare cases where this is permissible. Please make sure that the correct number is entered on the Other Project Information page. If not, correct and resubmit. Note, if you do not have an approved assurance on file with OHRP and have inserted "None" in item 1a, no correction is necessary.	
Other Project Info (R&R)	**Vertebrate animals used?**	3.6.1	If this is 'Y', then ONE of the following must be provided: • Assurance Number + IACUC Approval Date • Assurance Number + IACUC Approval Pending • The word 'None' (case insensitive, don't validate on punctuation) DP1 applications are exempt from this validation.	When Vertebrate Animals is "Yes", you must provide one of the following (1) animal welfare assurance number + IACUC approval date, (2) animal welfare assurance number + an indication that IACUC approval is pending OR (3) the word 'None' (Other Project Information, item 2).	
		3.6.2	For S10 applications, display a warning if this is true.	The answer to the Vertebrate Animals Used question in Other Project Information, item 2, should be 'No'. The application will be processed, but a concern may be raised during review.	
Other Project Info (R&R)	**IACUC review pending?**	3.7.1	Provide a warning if Vertebrate Animals Used is 'N'	When Vertebrate Animals is "No", IACUC Approval Pending indicator does not apply (Other Project Information, item 2).	
Other Project Info (R&R)	**IACUC approval date**	3.8.1	Provide a warning if VertebrateAnimalsUsedQuestion is false	When Vertebrate Animals is "No", IACUC Approval Date does not apply (Other Project Information, item 2).	
		3.8.2	Year of date must be greater than 1990	The year of the IACUC approval date must be greater than 1990.	
		3.8.3	The date can't be in the future	The IACUC Approval Date (Other Project Information, item 2) cannot be in the future.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Other Project Info (R&R)	**Animal Welfare Assurance #**	3.9.1	Provide a warning if VertebrateAnimalsUsedQuestion is false	When Vertebrate Animals is "No", Assurance Number does not apply (Other Project Information, item 2).	
		3.9.3	If an animal welfare assurance number is entered, provide a warning if it doesn't match animal welfare assurance number for this organization. Match needs to be on the last 9 characters of the IPF assurance number. This validation should not be done if the field is left blank or if the word 'None' is entered.	The Animal Welfare Assurance Number entered in Other Project Information, item 2, does not match what is in the eRA Commons profile for your organization. There are rare cases where this is permissible. Please make sure that the correct number is entered on the Other Project Information page. If not, correct and resubmit.	
Other Project Info (R&R)	**Proprietary or privileged info?**				
Other Project Info (R&R)	**Impact on environment?**				
Other Project Info (R&R)	**Activities outside US?**				
Other Project Info (R&R)	**Project Summary**	3.13.1	Limited to one page	The Project Summary/Abstract in Other Project Information, item 6 is limited to 30 lines of text.	
		3.13.2	Required	The Abstract (labeled 'Project Summary/Abstract' on the Other Project Information component) must be included.	
Other Project Info (R&R)	**Project Narrative**	3.14.1	For all applications except those in response to C06, UC6 or G20, limit to 1 page	The Public Health Relevance Statement (labeled 'Project Narrative' in Other Project Information, item 7) should be no longer than 2 or 3 sentences.	This will be used for the Public Health Relevance Statement.
		3.14.2	Required for C06, UC6, or G20 applications.	Please attach the Program Narrative as the Project Narrative attachment on the Other Project Information component.	
		3.14.3	Provide a warning if greater than 40 pages for C06, UC6, or G20 applications.	The Program Narrative (Other Project Information, Project Narrative attachment) is limited to 40 pages.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		3.14.6	Required for all applications (validation does not apply to C06, UC6 or G20).	The Public Health Relevance Statement (labeled 'Project Narrative' in Other Project Information, item 7) must be included.	
Other Project Info (R&R)	**Bibliography and References**	3.15.1	Provide a warning if this attachment hasn't been included. This validation only applies to NIH applications.	In most cases, a Bibliography and References Cited attachment should be included.	
		3.15.2	Provide error if attached for a DP1 or DP2 application	The Bibliography and References attachment on the Other Project Information page may not be included for this application.	
Other Project Info (R&R)	**Facilities and other resources**	3.16.1	Provide error if attached for a DP1,DP2 or DP3 application	The Facilities and Other Resources attachment on the Other Project Information page may not be included for this application.	
Other Project Info (R&R)	**Equipment**	3.17.1	Required for S10 applications.	The Equipment Attachment on the Other Project Information page is required for S10 applications.	
		3.17.2	Provide error if attached for a DP1, DP2 or DP3 application	The Equipment attachment on the Other Project Information page may not be included for this application.	
Other Project Info (R&R)	**Other attachments**	3.18.1	For S10 applications, provide error if at least one attachment has not been included for this.	No attachment was provided as an 'Other Attachment' on the Other Project Information page. Please attach the Instrumentation Plan in this location. Please also consult the funding opportunity announcement to which you are responding for any additional information to be attached as an 'Other Attachment.'	Note that multiple attachments may be received with Other Attachments. They should all be processed.

Component	Field	Rule	Validation	Error Message	Notes & Tips
		3.18.2	For DP1 applications, provide error if there are not exactly two attachments for this.	For a DP1 application, two attachments should be provided as 'Other Attachments' on the Other Project Information page. One Attachment should be used for the description of the applicant's most significant research accomplishment; the other attachment should be used for the essay	
		3.18.3	For S21 and S22 applications, provide error if at least three attachments haven't been included for this.	At least three attachments must be provided as an 'Other Attachment' on the Other Project Information page. Please consult the funding opportunity announcement for the type(s) of information to be attached.	
		3.18.5	For VA applications where Type of Application is 'New', do not accept file named '01_VA_Intro.pdf'	An Introduction cannot be submitted (as an Other Attachment on the Other Project Information page) for new applications.	
		3.18.6	For VA applications where Type of Application is 'Resubmission' or 'Revision', a file named '01_VA_Intro.pdf' is required.	An Introduction must be included as an 'Other Attachment' for resubmissions and revisions on the Other Project Information page. The attachment should be named '01_VA_Intro.pdf'.	
		3.18.7	For VA applications where a file named '01_VA_Intro.pdf' has been submitted for a revision, it cannot be greater than 1 page.	The Introduction for a revision, submitted as an Other Attachment on the Other Project Information page, is limited to one page	
		3.18.8	For VA applications where a file named '01_VA_Intro.pdf' has been submitted for a resubmission, it cannot be greater than 3 pages.	The Introduction for a resubmission, submitted as an Other Attachment on the Other Project Information page, is limited to three pages.	
		3.18.9	For VA applications where a file named '02_VA_Research_Plan.pdf' has been submitted, it cannot be greater than 25 pages.	The Research Plan, submitted as an Other Attachment on the Other Project Information page, is limited to 25 pages.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		3.18.10	For VA applications, require the submission of a file named '02_VA_Research_Plan.pdf'.	A Research Plan is required for this application. Please submit it as an 'Other Attachment' on the Project Information page, titled '02_VA_Research_Plan.pdf'.	
		3.18.11	For VA applications where Type of Application is 'Renewal', a file named '03_VA_Prog_Report_Pubs.pdf' is required.	A bibliography of publications resulting from the last period of VA funding must be included for all renewals. Please submit it as an 'Other Attachment' on the Project Information page, titled '03_VA_Prog_Report_Pubs.pdf'.	
		3.18.12	For VA applications where Human Subjects is 'Y', a file named '04_VA_Human_Subjects.pdf' is required.	A Human Subjects attachment must be included if the response to the Human Subjects question on the Other Project Information page is 'Yes'. Please submit it as an 'Other Attachment' on the Project Information page, titled '04_VA_Human_Subjects.pdf'.	
		3.18.13	For VA applications where Vertebrate Animals is 'Y', a file named '05_VA_Animals.pdf' is required.	A Vertebrate Animals attachment must be included if the response to the Vertebrate/Animals Subject Used Question on the Other Project Information page is 'Yes'. Please submit it as an 'Other Attachment' on the Project Information page, titled '05_VA_Animals.pdf'.	
		3.18.14	For VA applications where multiple PIs are included, a file named '06_VA_Multiple_PI.pdf' is required.	The Multiple PI Leadership Plan attachment must be included if multiple PIs have been included on the Senior/Key Person page. Please submit it as an 'Other Attachment' on the Project Information page, titled '06_VA_Multiple_PI.pdf'.	
		3.18.14.1	For VA applications where multiple PIs are not included, do not accept a file named '06_VA_Multiple_PI.pdf'.	The Multiple PI Leadership Plan attachment should not be included as an 'Other Attachment' on the Project Information page if a single PI has been included on the Senior/Key Person page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		3.18.15	For applications in response to VA announcements, provide warning if any attachment file names are not provided in one of the following formats: 01_VA_Intro.pdf 02_VA_Research_Plan.pdf 03_VA_Prog_Report_Pubs.pdf 04_VA_Human_Subjects.pdf 05_VA_Animals.pdf 06_VA_Multiple_PI.pdf 07_VA_Agreements.pdf 08_VA_Letters.pdf 09_VA_Appendix_1.pdf 10_VA_Appendix_2.pdf	An attachment submitted as an 'Other Attachment' on the Other Project Information page has the name '<file name>'. This is not a valid name for this attachment. Please refer to the FOA for the list of valid file names to be submitted as an 'Other Attachment'. The application will be processed, but concerns may be raised during review of the application.	
		3.18.16	For DP2 applications, provide error if there is not exactly one attachment for this.	For this application, one attachment should be provided as an 'Other Attachment' on the Other Project Information page. This attachment should be used for the essay.	Message updated to be more generic (not activity code specific)
		3.18.17	For DP2 provide an error if greater than 10 pages	The Essay (Other Project Information, Other Attachment) is limited to 10 pages for this application.	

Research & Related: Senior/Key Person Profile

Component	Field	Rule	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	**PD/PI Profile Information**	4.1.1	Pulled from SF 424 RR Cover component		Note: identify this Senior/Key Person as the contact PI if multiple PI roles are defined.
Senior/Key Person (R&R)	**PD/PI Profile, credential**	4.2.1	Must be specified for the PD/PI ((Minimum Validations)	The eRA Commons Username must be submitted for the PD/PI in the PD/PI Credential field on the Senior/Key Person page.	
		4.2.2	Truncate if greater than 30 characters, before comparing to account stored in database. No warning message is needed to the submitter. (Minimum Validations)		
		4.2.3	*If specified*, must be a valid Commons account. (Minimum Validations)	The eRA Commons Username <Credential> in the PD/PI Credential field on the Senior/Key Person page is not a recognized eRA Commons account.	
		4.2.4	For the PD/PI, this account must be affiliated with the organization submitting the application and have the PI role (Minimum Validations)	The eRA Commons account indicated for the PD/PI in the Credential field on the Senior/Key Person page, is not affiliated with the applicant organization. Check with your eRA Commons Account Administrator to make sure you have been affiliated with the applicant organization.	
		4.2.5	For a revision, the PI should be assigned to the parent grant. If the person profile for this Commons account is not the same person profile assigned as the PI to the parent grant, and the last name of the PI assigned to the parent grant matches the last name that is submitted for the PI on the current application, provide the indicated warning. This match must not be case-sensitive, and should compare only the non-blank, non-punctuation characters that appear in the last name. If neither the profile nor the last name match, provide the indicated error.	Warning: The eRA Commons account for the PI in the Credential field on the Senior/Key Person page does not include the parent grant of this submission in its support history. Error: The parent grant that has been entered is not associated with this PI.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		4.2.6	Provide a warning if there is both an SO and a PI role associated with the Commons account.	The eRA Commons account has 'SO' and 'PI' roles. Please create a separate eRA Commons account for the SO/AOR, then delete the 'SO' role from the account included in the submission. You do not need to send a changed/corrected application.	
		4.2.7	Provide a warning if the single role associated with the Commons account is an SO role.	The eRA Commons account included for the PD/PI is for an SO/AOR. Please add a PI role to this account, create a separate 'SO' eRA Commons account for the SO/AOR, and delete the 'SO' role from the original account. You do not need to send a changed/corrected application: however, you will need to change the roles on the Commons account as instructed, or the PD/PI will not be able to view the review outcome or the Summary Statement.	
		4.2.8	For a DP2, provide a warning if the PD/PI has been a PD/PI on a previous awarded DP1, DP2, R01, U01, P (any P), R23, R29, R33, R37, K99/R00, K02, K04, K05, K24, or K26.	A DP2 application should not be submitted for a PD/PI who has ever been a PI or a multiple PI on an R01 or equivalent NIH grant (e.g., R23, R29, R33, R37, DP1, DP2, U01, P01 or center grant); who has been a leader of a P01 or center grant peer-reviewed project; or who has been the recipient of a K99/R00, K02, K04, K05, K24, or K26 award. A PI who replaced another PI on an awarded grant is allowed to submit a DP2 application. This application will continue processing, but may be returned if it is determined that eligibility criteria are not met.	
		4.2.10	For a DP1 application, the PD/PI must not have been a PD/PI on a previously awarded DP1.	A DP1application cannot be submitted for a PD/PI who has previously received a DP1 award.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	**PD/PI Profile, other project role category**				
Senior/Key Person (R&R)	**Biosketch**	4.4.1	Limited to four pages	The Senior/Key Person Biosketch for the PD/PID, <first name last name>, is longer than four pages.	
		4.4.2	Limited to two pages for a DP1 or DP2 application.	The Senior/Key Person Biosketch for the PD/PI is limited to two pages for this application.	
Senior/Key Person (R&R)	**Current and Pending Support**	4.5.1	Attachment is required for a DP1 or DP2 application.	For this application, a Current and Pending Support attachment must be included for the PD/PI on the Senior/Key Person page	
Senior/Key Person (R&R)	**Profile, senior & key person *x*, name**	4.6.1	Truncate if first or last name>30 chars, or suffix>5 chars. (Minimum Validations)		Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db) *("nth" indicates the relative order of this KeyPerson element)*
		4.6.2	If this *and* Commons Account provided (and Commons account is recognized), provide warning if last name *and* first name on account don't match provided name. Comparison to ignore case and embedded spaces, but not embedded punctuation.	The name provided for Key Person <submitted first name last name > on the Senior/Key Person page does not match the eRA Commons account name (<Commons profile first name last name>). The application- image will display the name as submitted.	If the Commons account was not recognized, store data in eappl_personnel record without the person ID.
		4.6.3	For S10 applications, provide warning if there are not at least two senior/key persons (other than the PD/PI), with project role of 'Other (specify)'.	Less than 2 senior/key person entries have been included with a project role of 'Other (specify)' on the Senior/Key Person page to represent the major user group cohort. The application will be processed, but a concern may be raised during review.	
		4.6.4	For DP1 and DP2 applications, provide error if any senior/key persons included (other than the PD/PI on the SF 424 RR Cover)	For this application, the only Senior/Key Person who should be included is the PD/PI who is listed on the SF 424 RR Cover page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	**Profile, senior & key person *x*, position title**	4.7.1	Truncate if greater than 40 characters. No warning message is needed to the submitter. (Minimum Validations)		
Senior/Key Person (R&R)	**Profile, senior & key person *x*, organization name**	4.8.1	Needs to be enforced as mandatory.	The organization name for Key Person <Key Person First Name Last Name> must be provided on the Senior/Key Person page.	
Senior/Key Person (R&R)	**Profile, senior & key person *x*, department**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, division**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, street 1 and 2**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, city**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, county**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, state**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, province**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, zip code**				Long-term, change in eRA db to 13 characters.
Senior/Key Person (R&R)	**Profile, senior & key person *x*, country**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, phone**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	**Profile, senior & key person *x*, fax**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, e-mail**				
Senior/Key Person (R&R)	**Profile, senior & key person *x*, credential**	4.21.1	If specified for a key person with a PD/PI role, must be a valid Commons account. (Minimum Validations)	The eRA Commons Username <Credential>, specified on the Senior/Key Person page, for PD/PI <First Name Last Name>, is not a recognized eRA Commons account.	
		4.21.2	Truncate if greater than 30 characters, before comparing to account stored in database. No warning message is needed to the submitter. (Minimum Validations)		
		4.21.3	If specified for a key person with a PD/PI role, the Commons account must have a PI role associated with it (may have other roles as well).	The Commons account associated with <Credential> does not have a PI role. Please add a PI role to this account before submitting a changed/corrected application.	
		4.21.4	Must be specified if project role is 'PD/PI'. (Minimum Validations)	The eRA Commons Username has not been specified in the 'Credential' field on the Senior/Key Person page for PD/PI <First Name Last Name>	
Senior/Key Person (R&R)	**Profile, senior & key person *x*, project role**	4.22.1	For an R36 application (activity code on funding opportunity = 'R36'), there must be at least one key person included in addition to the PD/PI identified in the PD/PI component.	A mentor must be identified for an R36 application. List the mentor as a key person on the Senior Key Person page.	
		4.22.2	For a C06, UC6, or G20 application, there must be at least one key person identified with a project role of 'Other' or 'Other Professional'.	A Facilities Person must be identified for this application. Please provide the information for this person after the PD/PI on the Senior/Key Person page. Specify a project role of 'Other' or 'Other Professional', and an Other Project Role Category of 'Facilities Person'.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		4.22.3	For an S11 application, there must be at least one key person identified with a project role of 'Other' or 'Other Professional'.	A Collaborator must be identified for this application. Please provide the information for this person after the PD/PI on the Senior/Key Person page. Specify a project role of 'Other' or 'Other Professional', and an Other Project Role Category of 'Collaborator'.	
		4.22.41	For an SC2 application, there must be at least one key person identified with a project role of 'Other' or 'Other Professional' and a project role category of 'Mentor'.	A Mentor must be identified for this application. Please provide the information for this person after the PD/PI on the Senior/Key Person page. Specify a project role of 'Other' or 'Other Professional', and an Other Project Role Category of 'Mentor'.	
		4.22.5	Provide an error if project role is 'PD/PI' and credential is the same as the PD/PI credential.	PD/PI <First Name Last Name> has been identified in both the PD/PI portion and in the Senior/Key Person Profile portion of the Senior/Key Person page.	
		4.22.6	For NIH applications only, provide a warning if the 'Co-PI' role has been indicated	The role of 'Co-PI' has been indicated for Senior/Key Person <First Name Last Name> on the Senior/Key Person page is not used by NIH. For multiple Principal Investigators, use the PD/PI role. Otherwise, select another role.	
		4.22.61	For SC1, SC2, or SC3 applications, provide an error if the 'Co-PI' role has been indicated	The role of 'Co-PD/PI', indicated for Senior/Key Person <First Name Last Name> on the Senior/Key Person page, is not applicable to this mechanism.	
		4.22.7	If project role is 'PD/PI', identify in database as Multiple PI.		Need to create role record for multiple PIs. Also need to set multi_pi_indicator_code in appls_t. Populate affiliation data in person_involvements_t.external_org_id with the org identified as the default account affiliation. Should be indicated in mapping document.

Component	Field	Rule	Validation	Error Message	Notes & Tips
		4.22.8	For an SC1, SC2, or SC3 application, or for a K application, provide an error if the project role is 'PD/PI.' K12 applications are exempt from this validation.	For this mechanism, applications that include multiple PIs cannot be submitted.	
Senior/Key Person (R&R)	**Profile, senior & key person *x*, other project role category**	4.23.1	Accept "Other Project Role Category" only when "Project Role" is "Other" or "Other Professional"	For key person <First Name Last Name> on the Senior/Key Person page, an 'Other Project Role Category' was submitted for a project role of <project role>. This can be used only when Project Role is "Other" or "Other Professional".	
Senior/Key Person (R&R)	**Senior & key person *x*, Biosketch**	4.24.1	Limited to four pages	The Biosketch for Senior/Key Person <first name last name> on the Senior/Key Person page is longer than four pages.	
Senior/Key Person (R&R)	**Senior & key person x, Current and Pending Support**	4.25.1	For S10 applications, provide warning if no attachment is provided for any three senior/key persons with project role of 'Other (specify)' or with project role of 'PD/PI'.	Less than 3 Current and Pending Support attachments have been included for the major user group cohort on the Senior/Key Person page. The application will be processed, but a concern may be raised during review.	This attachment can be received for a PD/PI, or for a senior/key person with a role of 'Other (specify)'. We need to make sure that at least 3 of these attachments are submitted, whether 1 is submitted for the PD/PI and 2 for the senior/key person (with role of 'Other (specify)'), or 3 are submitted for the senior key person (with role of 'Other (specify)').
Senior/Key Person (R&R)	**Additional Senior/Key Person Profiles**	4.26.1	For version 1.0 of Key Person component, accept only if eight key personnel have been submitted on the Senior/Key Person page.	An Additional Senior/Key Person Profiles attachment may be submitted only if eight senior/key person profiles have been submitted on the Senior/Key Person page.	
		4.26.2	For the Research & Related Senior/Key Person Expanded version of Key Person component, accept only if 40 key personnel have been submitted on the Senior/Key Person page.	An Additional Senior/Key Person Profiles attachment may be submitted only if 40 senior/key person profiles have been submitted on the Senior/Key Person page.	
		4.26.3	Provide error if included for a DP1 or DP2 application.	The Additional Senior/Key Person Profiles attachment cannot be submitted for this application.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Senior/Key Person (R&R)	**Additional Senior/Key Person Biosketch**	4.27.1	Accept only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	An Additional Senior/Key Person Biosketch attachment may be submitted on the Senior/Key Person page only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	
		4.27.2	Provide error if included for a DP1 or DP2 application.	The Additional Senior/Key Person Biosketch attachment cannot be submitted for this application.	
Senior/Key Person (R&R)	**Additional Senior/Key Person Current and Pending Support**	4.28.1	Accept only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	An Additional Senior/Key Person Current and Pending Support attachment may be submitted on the Senior/Key Person page only if an Additional Senior/Key Person Profiles attachment has been submitted and accepted.	
		4.28.2	Provide error if included for a DP1 or DP2 application.	The Additional Senior/Key Person Current and Pending Support attachment cannot be submitted for this application.	

Research & Related Budget: Section A & B, Budget Period 1

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)			Unless specifically stated, all project budget validations also apply to the subaward budget.		In mapping, assign a budget period ID based on the year of the budget.
		5.0.1	Accept submission of modular budget or detailed budget, but not both (Minimum Validations)	Both a modular and a detailed budget have been included with this submission. One or the other may be submitted.	
		5.0.2	Require a submission of either a modular budget or a detailed budget component. The following mechanisms are exempt from this validation: S10, X01, X02, C06, UC6, G20, DP1, DP2 or DP3 (Minimum Validations)	You must include a budget component with this application.	
		5.0.3	A subaward budget should not be accepted if a modular budget has been included	A subaward budget may not be included if a modular budget has been submitted.	
		5.0.4	An application in response to an R03, R15, R21, R34 or U34 opportunity (but not R21/R33) must be submitted with a modular budget. Non-NIH applications and 'opt out' announcements are exempt from this validation. Applications where the applicant organization is foreign also are exempt from this validation.	R03, R15, R21, R34 and U34 applications submitted by domestic institutions (U.S.) must use the PHS 398 Modular Budget Form and not the SF 424 R&R Budget Form.	
		5.0.41	An application in response to an SC1, SC2, or SC3 opportunity must be submitted with a modular budget.	SC1, SC2, and SC3 applications must use the PHS 398 Modular Budget Form and not the SF 424 R&R Budget Form.	
		5.0.5	For a revision, if the parent grant budget is modular, only a modular budget component may be submitted.	The parent grant for this revision uses the modular format; therefore, this application may include a modular budget only.	
		5.0.6	For an STTR submission, there must be at least one budget included with budget type of subaward/ consortium for each year of the STTR (project) budget.	A Research Institution Budget page must be included for each year of an STTR submission	
		5.0.7	For an S11 application, there must be at least one budget included with budget type of subaward/consortium for each year of the project budget.	A subaward budget must be included with this submission for the Collaborator, for each year included on the project budget.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		5.0.8	For an S21/S22 application, provide a warning if a fourth budget period is included.	No more than three budget years should be included on the 424 RR Budget. The application will be processed, but a concern may be raised during review.	
Budget, A&B, Year x (R&R)	**Organizational DUNS**	5.1.1	Required for budget type 'Subaward/Consortium'	The Organizational DUNS has not been included for Sections A&B for <name of organization> on the 424 RR Budget page.	
		5.1.2	One and only one budget should contain the DUNS of the applicant organization.	The project budget must contain the DUNS number for the applicant organization on the 424 RR Budget Page. This number should not appear on a Subaward budget; i.e., a Subaward budget must have a different DUNS number entered.	
		5.1.3	This must be a budget that has been identified as 'Project'	A Subaward budget has been identified for the applicant organization. All budget requirements for the applicant organization must be included in the project budget.	
Budget, A&B, Year x (R&R)	**Budget type (project, subaward/ consortium)**	5.2.1	If a detailed budget is included, there must be one and only one occurrence with a value of 'Project'.	Only one budget with a budget type of 'Project' for Sections A&B may be submitted on the 424 RR Budget page.	
Budget, A&B, Year x (R&R)	**Name of organization (for subaward/ consortium)**	5.3.1	If multiple detailed budgets have been included in the submission, all budget and warning messages should include the name of the organization for which the budget validation has failed.		Since there is a limit of 250 characters for the error message, put the organization name at the end of the message, and truncate if necessary.
Budget, A&B, Year x (R&R)	**Start Date**	5.4.1	For budget year 1, for Budget Type 'Project', for new applications and resubmissions, must be the same as the Proposed Project Start Date listed on the SF 424 RR Face Page.	For new applications and resubmissions, the start date for the first budget year on the 424 RR Budget pages must be the same as the proposed project start date listed on the SF424 RR Cover page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		5.4.2	For budget years after budget year 1, must be greater than or equal to the Proposed Project Start Date listed on the SF 424 RR Face Page.	The start date for budget year <budget year> must be equal to or later than the proposed project start date listed on the SF 424 RR Cover page.	
Budget, A&B, Year x (R&R)	**End Date**	5.5.1	Must be greater than the budget start date and less than or equal to the Project Period End Date, both listed on the SF 424 RR Face Page.	The end date for budget year <budget year> must be later than the budget start date and less than or equal to the proposed project end date listed on the SF 424 RR Cover page.	
Budget, A&B, Year x (R&R)	**Senior/Key Person Name (prefix, first name, middle name, last name, suffix)**	5.6.1	Truncate if first or last name>30 chars, or if suffix>5 chars ((Minimum Validations)		Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db)
		5.6.2	For Project Role of PD/PI (for the PI listed on the SF 424 RR Cover only), must match Senior/Key Person form last name and first name.	The < name> given for the PD/PI for budget year <budget year> on the 424 RR Budget page (section A&B) does not match the name given for the PD/PI on the SF 424 RR Cover.	
Budget, A&B, Year x (R&R)	**Senior/Key Person Project Role**	5.7.1	For budgets of type 'Project', there must be at least one record for the budget year with a project role of PD/PI. Validation does not apply to STTR submissions.	There must be a Personnel entry (with a role of PD/PI) listed for the PI or PD on the 424 RR Detailed Budget Page (Section A&B) for budget year <budget year>.	For an STTR submission, the PI/PD could be on the Research Institution Budget.
Budget, A&B, Year x (R&R)	**Senior/Key Person Base Salary**	5.8.1	Cannot be greater than 99,999,999.99.	The Base Salary for <Senior/Key Person First Name Last Name> on the 424 RR Budget page (section A&B) for Budget Year < Budget Year> exceeds the allowable amount for the agency ($99,999,999).	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	**Senior/Key Person Cal. Mos**	5.9.1	For non-R13 submissions (except for PD/PIs on STTR submissions), a non-zero value for calendar months, academic months, or summer months is required for each senior/key person.	Senior/Key Person <First name Last name>, listed on the 424 RR Detailed Budget Page for budget year <budget year>, must include effort of a value greater than zero in calendar months, academic months, or summer months. **Note:** use either calendar months or a combination of academic and summer months. For information about calculating person months, see http://grants1.nih.gov/grants/policy/person_months_faqs.htm.	
		5.9.2	For an R13 submission, a value for calendar months, academic months, or summer months is required for each senior/key person. The value may be zero.	Senior/Key Person <First name Last name>, listed on the 424 RR Detailed Budget Page for budget year <budget year>, must include effort (zero or greater) in calendar months, academic months, or summer months. **Note:** use either calendar months or a combination of academic and summer months. For information about calculating person months, see http://grants1.nih.gov/grants/policy/person_months_faqs.htm	Need to confirm that a zero is treated differently from a null value, also that a system to system submission with an empty tag will not result in a zero value being inserted in that element
		5.9.3	For PD/PIs on STTR submissions, a non-zero value for calendar months, academic months, *or* summer months is required on either the project budget or the subaward budget. It is not required on both.	PD/PI <First name Last name>, listed on the 424 RR Detailed Budget Page for budget year <budget year>, must include effort of a value greater than zero in calendar months, academic months, or summer months. **Note**: use either calendar months or a combination of academic and summer months. For information about calculating person months, see http://grants1.nih.gov/grants/policy/person_months_faqs.htm**.**	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	**Senior/Key Person acad. mos**	5.10.1	Provide warning if both academic and calendar months have been provided for a person for a budget year.	Both academic and calendar months have been included for <Senior/Key Person First Name Last Name>, for budget year <budget year> on the 424 RR Budget page (section A&B). Please use either calendar months or a combination of academic and summer months. If effort does not change throughout the year, use the calendar months column. If effort varies between academic and summer months, leave the calendar months column blank and use only the academic and summer months' columns.	
Budget, A&B, Year x (R&R)	**Senior/Key Person summer mos**				
Budget, A&B, Year x (R&R)	**Senior/Key Person Requested Salary**				
Budget, A&B, Year x (R&R)	**Senior/Key Person Fringe benefits**	5.13.1	Cannot be greater than 99,999,999.99.	The Fringe Benefit amount for <Senior/Key Person First Name Last Name> on the 424 RR Budget page (section A&B) for Budget Year < Budget Year> exceeds the allowable amount for the agency ($99,999,999).	
Budget, A&B, Year x (R&R)	**Senior/Key Person Funds Requested**	5.14.1	Must be equal to the sum of Requested Salary and Fringe Benefits for the Senior/Key Person for the budget year.	The Funds Requested for <Senior/Key Person First Name Last Name> on the 424 RR Budget page (section A&B) for Budget Year <Budget Year> does not equal the sum of the Requested Salary and the Fringe Benefits for the corresponding budget year.	
Budget, A&B, Year x (R&R)	**Total funds requested for Senior Key Persons in attachment**	5.15.1	Required if Additional Senior Key Persons Attachment is included.	If the Additional Senior Key Persons Attachment is included, the total funds that are requested in the attachment must be provided on the 424 RR Budget Page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	**Total Funds requested for all senior/key persons**				Never implemented
Budget, A&B, Year x (R&R)	**Additional Senior Key Persons attachment**	5.17.1	Accept only if eight key personnel have been submitted on the budget page for this year.	An Additional Senior/Key Person attachment may be submitted on the 424 RR Budget page (section A&B) for budget year <budget year> only if eight senior/key persons have been submitted on the budget page.	
Budget, A&B, Year x (R&R)	**Other Personnel, (number of personnel)**				
Budget, A&B, Year x (R&R)	**Other Personnel (Project Role)**				
Budget, A&B, Year x (R&R)	**Other Personnel (Cal. Mos)**				
Budget, A&B, Year x (R&R)	**Other Personnel (acad.mos)**				
Budget, A&B, Year x (R&R)	**Other Personnel (summer mos)**				
Budget, A&B, Year x (R&R)	**Other Personnel (Requested salary)**				
Budget, A&B, Year x (R&R)	**Other Personnel (Fringe benefits)**				
Budget, A&B, Year x (R&R)	**Other Personnel (Funds Requested)**				Never implemented

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	**Total number other personnel**				Never implemented
Budget, A&B, Year x (R&R)	**Total Funds Requested other personnel**				Never implemented
Budget, A&B, Year x (R&R)	**Total salary, wages and fringe benefits**	5.28.1	Must equal the sum of Total Funds requested for all senior/key persons and Total Funds Requested other personnel	The Total Salary, Wages and Fringe Benefits for Budget Year <Budget Year> on the 424 RR Budget page (section A&B) does not equal the sum of Total Funds requested for all senior/key persons and Total Funds Requested for other personnel	

Research & Related Budget: Section C, D, & E, Budget Period 1

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, C, D, E, Year x (R&R)	**Equipment description, equipment item**				
Budget, C, D, E, Year x (R&R)	**Equipment description, funds req**				
Budget, C, D, E, Year x (R&R)	**Equipment description, total funds requested in attachment**				
Budget, C, D, E, Year x (R&R)	**Equipment description, total equipment**				Never implemented
Budget, C, D, E, Year x (R&R)	**Additional equipment attachment**				
Budget, C, D, E, Year x (R&R)	**Travel, domestic travel costs**				
Budget, C, D, E, Year x (R&R)	**Travel, foreign travel costs**				
Budget, C, D, E, Year x (R&R)	**Total travel cost**				Never implemented
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: tuition**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: stipends**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: travel**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: subsistence**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: other**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: description of other**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: number of Participants/ Trainees**				
Budget, C, D, E, Year x (R&R)	**Participant/ trainee support costs: Total Participant/ Trainee Support Costs**				Never implemented

Research & Related Budget: Section F–K, Budget Period 1

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, F-K, Year x (R&R)	**Other Direct Costs (materials & supplies)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (Publication Costs)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (Consultant Services)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (ADP/ Computer Services**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (Subawards/ Consortium/ Contractual Costs)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (Equipment or Facility Rental/ User Fees)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (Alterations and Renovations)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (other description 1)**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, F-K, Year x (R&R)	**Other Direct Costs (other1 funds requested)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (other description 2)**				
Budget, F-K, Year x (R&R)	**(other2 funds requested)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs (other description 3)**				
Budget, F-K, Year x (R&R)	**(other3 funds requested)**				
Budget, F-K, Year x (R&R)	**Other Direct Costs, Total Other Direct Costs**	7.14.1	Must be equal to the sum of other direct costs for the budget year.	The Total Other Direct Costs for Budget Year <Budget Year> on the 424 RR Budget page (section F-K) does not equal the sum of other direct costs for all categories for the corresponding budget year.	
Budget, F-K, Year x (R&R)	**Total Direct Costs (A-F)**	7.15.1	Required.	The Total Direct Costs Funds Requested for Year *x* is required on the 424 RR Budget page (section F-K).	
		7.15.2	Must be equal to the sum of total salary, wages and fringe benefits, total funds requested for equipment, total travel cost, total participant/trainee support costs, and total other direct costs	The Total Direct Costs for A-F for Budget Year <Budget Year> on the 424 RR Budget page (section F-K) does not equal the sum of direct costs for Sections A-F.	
		7.15.3	For R01, R03, R15, R21, R34 and U34 submissions that are for NIH, provide warning if subtotal direct costs for *every* budget year is < = $250K. Applications where the applicant organization is foreign are exempt from this validation. Calculate subtotal direct costs as follows: Total Direct Costs (A-F) *minus* the sum of Total Indirect Costs for all budgets for the corresponding year with budget type 'subaward/consortium'.	R01, R03, R15, R21,R34 and U34 direct cost requests of $250K or less each year on the 424 RR Budget page (section F-K) must be in modules of $25K, using the PHS 398 Modular Budget Form and not the R&R Budget Form. Incorrect applications may be delayed in the peer review process or rejected.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		7.15.4	For an S11 submission, provide a warning on a subaward budget if this is greater than $75K.	The total cost per year for a subaward budget should not be greater than $75K. The application will be processed, but a concern may be raised during review.	
		7.15.5	For a G11 submission, provide a warning if subtotal direct costs for budget year 1 is greater than $60K. Calculate subtotal direct costs as follows: Total Direct Costs (A-F) *minus* the sum of Total Indirect Costs for all budgets for the corresponding year with budget type 'subaward/consortium'.	Direct cost requests (on the 424 RR Budget page section F-K) for the first budget year should not be greater than $60K. The application will be processed, but concerns may be raised during review.	
		7.15.6	For a G13 submission, subtotal direct costs on the project budget cannot be greater than 50k. Calculate subtotal direct costs as follows: Total Direct Costs (A-F) *minus* the sum of Total Indirect Costs for all budgets for the corresponding year with budget type 'subaward/consortium'.	Direct cost requests (on the 424 RR Budget page section F-K) can not be greater than $50K.	
		7.15.7	For non-SBIR/STTR submissions, non-S21 or S22 submissions, and ~~for~~ submissions that are not in response to an RFA, provide warning if subtotal direct costs for *any* budget year is >= 500K (LV for R01, R18, U18, R25). Calculate subtotal direct costs as follows: Total Direct Costs (A-F) *minus* the sum of Total Indirect Costs for all budgets for the corresponding year with budget type 'subaward/consortium'.	Direct cost requests (on the 424 RR Budget page section F-K) >=$500k a year need agreement from ICs, except for RFAs or PAs with budgetary limits. Applications without such approval may be delayed in the peer review process or rejected.	Design note: RFA announcements have rfa_pa_notices_t.notice_type_code='R'
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
Budget, F-K, Year x (R&R)	**Indirect Costs, Indirect Cost Type**	7.16.1	Allow submissions to come in with no indirect costs. (Minimum Validations)		

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, F-K, Year x (R&R)	**Indirect Costs, Indirect Cost Rate**	7.17.1	Provide warning if less than 1.	The Indirect Cost Rate (on the 424 RR Budget page, section F-K) is less than 1 for budget Year <Budget Year>. Please note that this figure represents a percentage (e.g., '25.5', not '.255').	
		7.17.2	If provided for a K application (including K12), provide a warning if not equal to 8.	Warning message: The Indirect Cost Rate (on the 424 RR Budget page section F-K) is not equal to 8 for budget Year <Budget Year>.	
Budget, F-K, Year x (R&R)	**Indirect Costs, Indirect Cost Base**	7.18.1	Provide an error if included on a G08, S21, or S22 application.	No indirect cost base may be included for this application on the 424 RR Budget page section F-K, budget year <budget year>.	
Budget, F-K, Year x (R&R)	**Indirect Costs, Funds Requested**	7.19.1	Provide an error if included on a G08, S21, or S22 application.	No indirect cost funds may be requested for this application on the 424 RR Budget page section F-K, budget year <budget year>.	
Budget, F-K, Year x (R&R)	**Indirect Costs, Cognizant Federal Agency**				
Budget, F-K, Year x (R&R)	**Total Indirect Costs**	7.21.1	Must be equal to funds requested for all indirect cost types	The Total Indirect Costs for Budget Year <Budget Year> on the 424 RR Budget page (section F-K) does not equal the sum of indirect costs for each indirect cost type.	
Budget, F-K, Year x (R&R)	**Total Direct and Indirect Costs**	7.22.1	Required	The Total Direct and Indirect Costs Funds Requested for Year *x* is required on the 424 RR Budget page (section F-K).	
		7.22.2	Must be equal to the sum of Total Direct Costs and Total Indirect Costs	The Total Direct and Indirect Institutional Costs on the 424 RR Budget page (section F-K) is not equal to the sum of Total Other Direct Costs and Total Indirect Costs.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Budget, F-K, Year x (R&R)	**Fee**	7.231	A fee cannot be entered for a subaward/consortium budget.	A fee has been entered for year <*x*> of the budget for <organization name> on the 424 RR Budget page (section F-K). Fees are not allowed for subaward/consortium budgets.	
Budget, F-K, Year x (R&R)	**Budget Justification**	7.24.1	If fee is requested for SBIR/STTR, must not be blank or null	A fee has been entered for year <*x*> of the Project budget on the 424 RR Budget page (section F-K). A Budget Justification must be included if a fee has been entered.	
		7.24.2	If SBIR/STTR Phase I cost limitation is exceeded, must not be blank or null. Cost limitation is 100k, calculated as total cost (direct cost, indirect cost, and fee).	The Phase I cost limitation of 100k has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	
		7.24.3	If SBIR/STTR Phase II cost limitation is exceeded, must not be blank or null. Cost limitation is 750k, calculated as total cost (direct cost, indirect cost, and fee).	The Phase II cost limitation of 750k has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	
		7.24.4	If Fast-Track cost limitation is exceeded, must not be blank or null. Cost limitation is 850k, calculated as total cost (direct cost, indirect cost, and fee).	The Fast-Track cost limitation of 850k has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	
		7.24.5	If Phase I SBIR time limitation is exceeded, must not be blank or null. Time limitation is six months, calculated as the time between the start date of the first budget period and the end date of the last budget period.	The Phase I SBIR time limitation of six months has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	Since there is no cumulative budget justification, this validation will look at the Budget Justification for the first budget period. Instructions should include this.
		7.24.6	If Phase I STTR time limitation is exceeded, must not be blank or null. Time limitation is one year, calculated as the time between the start date of the first budget period and the end date of the last budget period.	The Phase I STTR time limitation of one year has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	Since there is no cumulative budget justification, this validation will look at the Budget Justification for the first budget period. Instructions should include this.

Component	Field	Rule	Validation	Error Message	Notes & Tips
		7.24.7	If Phase II SBIR/STTR time limitation is exceeded, must not be blank or null. Time limitation is two years, calculated as the time between the start date of the first budget period and the end date of the last budget period.	The Phase II SBIR/STTR time limitation of two years has been exceeded. Please explain the deviation in the Budget Justification on the 424 RR Budget page (section F-K).	Since there is no cumulative budget justification, this validation will look at the Budget Justification for the first budget period. Instructions should include this.

Research & Related Budget: Cumulative Budget

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cumulative Budget (R&R)	**Section A, Senior/Key Person Total**				Never implemented
Cumulative Budget (R&R)	**Section B, Other Personnel Total**				Never implemented
Cumulative Budget (R&R)	**Total Number other personnel**				Never implemented
Cumulative Budget (R&R)	**Total Salary, Wages, and Fringe Benefits**				Never implemented
Cumulative Budget (R&R)	**Section C, Equipment Totals**				Never implemented
Cumulative Budget (R&R)	**Section D, Travel, Total**				Never implemented
Cumulative Budget (R&R)	**Section D, Travel, Domestic**				Never implemented
Cumulative Budget (R&R)	**Section D, Travel, Foreign**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Total**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Tuition, Fees, Health Insurance**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Stipends**				Never implemented

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Travel**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Subsistence**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Other**				Never implemented
Cumulative Budget (R&R)	**Section E, Participant/ Trainee, Number**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Total**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Materials and Supplies**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Publication Costs**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Consultant Services**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, ADP/ Computer Services**				Never implemented

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cumulative Budget (R&R)	**Section F, Other Direct Costs, sub, consortium, contractual**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Equip or facility rental**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, Alterations and Renovations**				Never implemented
Cumulative Budget (R&R)	**Section F, Other Direct Costs, other**				Never implemented
Cumulative Budget (R&R)	**Section G, Direct Costs (A-F), total**	8.25.1	Required.	The 424 RR Cumulative Budget Direct Costs is required.	
		8.25.2	Must be equal to the sum of Total Direct Costs for every budget year for this budget.	The 424 RR Cumulative Budget Total Direct Costs does not equal the sum of Total Direct Costs for all budget years.	
		8.25.3	For a G08 submission with one budget period, must be less than or equal to $150k.	The 424 RR Cumulative Budget Total Direct Costs cannot exceed $150k if one budget period has been included.	
		8.25.4	For a G08 submission with two budget periods, must be less than or equal to $300k.	The 424 RR Cumulative Budget Total Direct Costs cannot exceed $300k if two budget periods have been included.	
		8.25.5	For a G08 submission with three budget periods, must be less than or equal to $450k.	The 424 RR Cumulative Budget Total Direct Costs cannot exceed $450k if three budget periods have been included.	
		8.25.6	Cannot be greater than 99,999,999.99.	The Direct Costs (A-F) on the Cumulative 424 RR Budget page (section G) exceeds the allowable amount for the agency ($99,999,999).	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cumulative Budget (R&R)	**Section H, Indirect Costs**	8.26.1	Must be equal to the sum of Total Indirect Costs for every budget year for this budget.	The 424 RR Cumulative Budget Total Indirect Costs does not equal the sum of Total Indirect Costs for all budget years.	
		8.26.2	Cannot be greater than 99,999,999.99.	The Indirect Costs on the Cumulative 424 RR Budget page (section H) exceeds the allowable amount for the agency ($99,999,999).	
Cumulative Budget (R&R)	**Section I, Total Direct and Indirect Costs**	8.27.1	Required	The 424 RR Cumulative Budget Total Direct and Indirect Costs are required.	
		8.27.2	Must be equal to the sum of Total Direct and Indirect Costs for every budget year for this budget.	The 424 RR Cumulative Budget Total Direct and Indirect Costs do not equal the sum of Total Direct and Indirect Costs for all budget years.	
Cumulative Budget (R&R)	**Section J, Fee**				Never implemented
Cumulative Budget (R&R)	**Budget Justification (attachment)**				

Construction Budget

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	**Administration and Legal Expenses, Total Cost**				These will have one budget period only. It should be mapped with the same start and end date as the project period.
Construction Budget (R&R)	**Administration and Legal Expenses, Costs Not Allowable for Participation**				
Construction Budget (R&R)	**Administration and Legal Expenses, Total Allowable Costs**	9.3.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Administration and Legal Expenses (the Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Land, Structures, Rights-of-way, etc., Total Cost				
Construction Budget (R&R)	Land, Structures, Rights-of-way, etc., Costs Not Allowable for Participation				
Construction Budget (R&R)	Land, Structures, Rights-of-way, etc., Total Allowable Costs	9.6.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Land, Structures, Rights-of-way, Appraisals, etc., (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	Relocation Expenses and Payments, Total Cost				
Construction Budget (R&R)	Relocation Expenses and Payments, Costs Not Allowable for Participation				
Construction Budget (R&R)	Relocation Expenses and Payments, Total Allowable Costs	9.9.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Relocation Expenses and Payments (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Architectural and Engineering Fees, Total Cost				
Construction Budget (R&R)	Architectural and Engineering Fees, Costs Not Allowable for Participation				
Construction Budget (R&R)	Architectural and Engineering Fees, Total Allowable Costs	9.12.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Architectural and Engineering Fees (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Other Architectural and Engineering Fees, Total Cost				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	Other Architectural and Engineering Fees, Costs Not Allowable for Participation				
Construction Budget (R&R)	Other Architectural and Engineering Fees, Total Allowable Costs	9.15.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Other Architectural and Engineering Fees (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Project Inspection Fees, Total Cost				
Construction Budget (R&R)	Project Inspection Fees, Costs Not Allowable for Participation				
Construction Budget (R&R)	Project Inspection Fees, Total Allowable Costs	9.18.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Project Inspection Fees (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Site Work, Total Cost				
Construction Budget (R&R)	Site Work, Costs Not Allowable for Participation				
Construction Budget (R&R)	Site Work, Total Allowable Costs	9.21.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Site Work (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	Demolition and Removal, Total Cost				
Construction Budget (R&R)	Demolition and Removal, Costs Not Allowable for Participation				
Construction Budget (R&R)	Demolition and Removal, Total Allowable Costs	9.24.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Demolition and Removal (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Construction, Total Cost				
Construction Budget (R&R)	Construction, Costs Not Allowable for Participation				
Construction Budget (R&R)	Construction, Total Allowable Costs	9.27.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Construction (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Equipment, Total Cost				
Construction Budget (R&R)	Equipment, Costs Not Allowable for Participation				
Construction Budget (R&R)	Equipment, Total Allowable Costs	9.30.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Equipment (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	Miscellaneous, Total Cost				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	Miscellaneous, Costs Not Allowable for Participation				
Construction Budget (R&R)	Miscellaneous, Total Allowable Costs	9.33.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Miscellaneous (Construction Budget) must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	**Subtotal 1, Total Cost**	9.34.1	Provide error if not equal to the sum of lines 1-11, Total Cost	The Total Cost Subtotal on the Construction Budget must be equal to the sum of total costs for all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Subtotal 1, Costs Not Allowable for Participation**	9.35.1	Provide error if not equal to the sum of lines 1-11, Costs Not Allowable for Participation	The Costs Not Allowable for Participation Subtotal on the Construction Budget must be equal to the sum of all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Subtotal 1, Total Allowable Costs**	9.36.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs Subtotal on the Construction Budget must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
		9.36.2	Provide error if not equal to the sum of lines 1-11, Total Allowable costs	The Total Allowable Costs Subtotal on the Construction Budget must be equal to the sum of all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Contingencies , Total Cost**				
Construction Budget (R&R)	**Contingencies , Costs Not Allowable for Participation**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	**Contingencies, Total Allowable Costs**	9.39.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs for Contingencies on the Construction Budget must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	**Subtotal 2, Total Cost**	9.40.1	Provide error if not equal to the sum of lines 12 and 13, Total Cost	The Total Cost Subtotal on the Construction Budget must be equal to the sum of Contingencies and the subtotal of all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Subtotal 2, Costs Not Allowable for Participation**	9.41.1	Provide error if not equal to the sum of lines 12 and 13, Costs Not Allowable for Participation	The Costs Not Allowable for Participation Subtotal on the Construction Budget must be equal to the sum of Contingencies and the subtotal of all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Subtotal 2, Total Allowable Costs**	9.42.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Allowable Costs Subtotal on the Construction Budget must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
		9.42.1	Provide error if not equal to the sum of lines 12 and 13, Total Allowable Costs	The Total Allowable Costs Subtotal on the Construction Budget must be equal to the sum of Contingencies and the subtotal of all Administration and Legal Expenses entries	
Construction Budget (R&R)	**Project (Program) Income, Total Cost**				
Construction Budget (R&R)	**Project (Program) Income, Costs Not Allowable for Participation**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Construction Budget (R&R)	**Project (Program) Income, Total Allowable Costs**	9.45.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Project (Program) Income, Total Allowable Costs on the Construction Budget must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	
Construction Budget (R&R)	**Total Project Costs, Total Cost**	9.46.1	Provide error if not equal to line 14 minus line 15, Total Cost	The Total Project Costs, Total Cost on the Construction Budget must be equal to the subtotal minus the Project Income.	
Construction Budget (R&R)	**Total Project Costs, Costs Not Allowable for Participation**	9.47.1	Provide error if not equal to line 14 minus line 15, Costs Not Allowable for Participation	The Total Project Costs, Costs Not Allowable for Participation on the Construction Budget must be equal to the subtotal minus the Project Income.	
Construction Budget (R&R)	**Total Project Costs, Total Allowable Costs**	9.48.1	Provide error if not equal to column A (Total Cost) minus column B (Costs Not Allowable for Participation).	The Total Project Costs, Total Allowable Costs on the Construction Budget must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for Participation)	Map to appls_t.total_period_amt and appl_periods_t.direct_cost_amt
		9.48.2	Provide error if not equal to line 14 minus line 15, Total Allowable Costs	The Total Project Costs, Total Allowable Costs on the Construction Budget must be equal to the subtotal minus the Project Income.	
Construction Budget (R&R)	**Federal Funding**				
Construction Budget (R&R)	**Federal Assistance Requested**				

SBIR/STTR Information

Component	Field	Rule	Validation	Error Message	Notes & Tips
SBIR/STTR (NIH)	**Program Type (SBIR, STTR, Both)**	10.1.1	One and only one choice may be made.	Please select one Program Type: SBIR or STTR on the SBIR/STTR Information page.	
		10.1.2	Choice must be consistent with the information stored for the announcement: if the announcement is indicated as 'SBIR', 'SBIR' must be selected; if announcement is indicated as 'STTR', 'STTR' must be selected.	You have selected a Program Type of <Program Type> on the SBIR/STTR component on the SBIR/STTR Information page. That is not the correct program type for this announcement. Please refer to the FOA for the correct program type for this application.	
		10.1.3	'Both' is not a valid choice.	For submissions to this agency, "Both" is not an acceptable value for the 'Program Type' field on the 424 RR SBIR/STTR Information Component.	
SBIR/STTR (NIH)	**SBIR/STTR Type (Phase I, Phase II, Fast-Track)**	10.2.1	One and only one choice may be made.	Please select one SBIR/STTR Type: Phase I, Phase II, or Fast-Track (424 RR SBIR/STTR Information Component).	
SBIR/STTR (NIH)	**Question 1. Small Business Eligibility (Y/N)**	10.3.1	Required.		Store response in database.
SBIR/STTR (NIH)	**Question 2. Are Subcontracts Included? (Y/N)**	10.4.1	Required.		Store response in database.
SBIR/STTR (NIH)	**Name of Labs/ Agencies For Subcontracts**	10.5.1	Required entry if response to 'Are Subcontracts Included?' is 'Yes'.	If Question 2 on the SBIR/STTR Information Component indicates that subcontracts are included, the name(s) of labs or agencies for subcontracts must be included.	Store response in database.

Component	Field	Rule	Validation	Error Message	Notes & Tips
		10.5.2	Cannot be included if response to 'Are Subcontracts Included?' is 'No'.	If Question 2 on the SBIR/STTR Information Component indicates that subcontracts are not included, the name(s) of labs or agencies for subcontracts cannot be included.	
SBIR/STTR (NIH)	**Question 3. Located in HUBZone (Y/N)**	10.6.1	Required.		Store response in database.
SBIR/STTR (NIH)	**Question 4. Research to be Performed in US? (Y/N)**	10.7.1	Required.		Store response in database.
SBIR/STTR (NIH)	**Explanation of Foreign Performance**	10.8.1	Must be included if answer to 'work to be performed in US' question is 'no'.	If Question 4 on the SBIR/STTR Information Component indicates that research is not to be performed in the US, an explanation attachment must be provided.	
		10.8.2	Cannot be included if answer to 'work to be performed in US' question is 'yes'.	If Question 4 on the SBIR/STTR Information Component indicates that research is to be performed in the US, an explanation attachment cannot be provided.	
SBIR/STTR (NIH)	**Question 5. Equivalent Submissions (Y/N)**	10.9.1	Required.		Store response in database.
SBIR/STTR (NIH)	**Names of other Federal agencies for equivalent work**	10.10.1	Required entry if answer to 'submittal of equivalent work to other agencies' question is 'yes'.		Store response in database.
		10.10.2	Cannot be included if answer to 'submittal of equivalent work to other agencies' question is 'no'.		
SBIR/STTR (NIH)	**Question 6. Disclosure Permission Statement (Y/N)**	10.11.1	Required		Map response to appls_t, disclosure_permission_code
SBIR/STTR (NIH)	**Commercialization Plan Attachment**	10.12.1	Required for Phase II and Fast Track submissions	The Commercialization Plan is required on the SBIR/STTR Information Component for Phase II and Fast Track submissions	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		10.12.2	Cannot be submitted for anything other than Phase II or Fast Track submissions	A Commercialization Plan can only be submitted for Phase II and Fast Track submissions on the SBIR/STTR Information Component.	
		10.12.3	Limited to 15 pages.	The Commercialization Plan on the SBIR/STTR Information Component is limited to 15 pages. Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Commercialization Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
SBIR/STTR (NIH)	**Question 8. Receipt of Phase II SBIR Awards (Y/N)**	10.13.1	Required for SBIR		Store response in database.
SBIR/STTR (NIH)	**Company Commercialization History Attachment**				
SBIR/STTR (NIH)	**Question 9. SBIR PD/PI Primary Employment (Y/N)**	10.15.1	Required for SBIR		Store response in database.
SBIR/STTR (NIH)	**Question 10. STTR PD/PI Commitment (Y/N)**	10.16.1	Required for STTR		Store response in database.
SBIR/STTR (NIH)	**Question 11. STTR work percentages (Y/N)**	10.17.1	Required for STTR		Store response in database.

PHS 398 Cover Page Supplement

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Page (NIH)	**PD/PI Information (prefix, first, middle, last, suffix)**	11.1.1	Read only, pulled from R&R		
Cover Page (NIH)	**PD/PI New Investigator Question**	11.2.1	On an R01 submission, if 'Yes', PD/PI (and multiple PIs) should not have a PI or multiple PI role on any awarded R01.	For an R01 submission to be considered a New Investigator application, the PD/PI must not have received agency R01 funding in the past. All PIs (including multiple PIs) must meet the definition of New Investigator for this box to be checked.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Page (NIH)	**PD/PI Degrees**	11.3.1	Match against 4 character degree codes in PI's Commons account (ignore case, spaces, or punctuation). If the Commons account has degrees, but the submitted degree does not appear on the list of Commons degrees, compare against any 'other degree text' degrees on Commons account. If degree not found on the degree list or on 'other degree text' entries for the PI, display a warning to the PI that the degrees did not match the Commons account, and that the submitted degrees will be displayed on the grant image. "The degrees that will be displayed on the grant image are x, y, and z". In db, save the top three Commons degrees instead of the submitted degrees in the role. (Minimum Validations)	The PD/PI degree: <degree>, listed on the PHS 398 Cover Page, is not one of the degrees listed for the eRA Commons account: <List of degrees in the profile, separated by commas>. The application image will display the degrees as submitted. If the degrees listed in the eRA Commons are not current, please update them in the eRA Commons. Instructions on updating profile information are available at https://commons.era.nih.gov/commons-help/216.htm.	
		11.3.2	If there are no degrees listed in the Commons account, give a warning and copy the degrees from the application to the profile.	The eRA Commons profile did not have any degrees associated with the PD/PI. The system has automatically updated the profile to include the degrees included on the grant application. We advise reviewing the profile data to ensure accuracy of the information.	
		11.3.3	Provide a warning if no degrees have been included.	No degrees have been submitted for the PD/PI. If you want the degrees to be displayed on the face page of the application image, you should include them on the PHS 398 Cover Page Supplement.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Page (NIH)	**Human Subjects Clinical Trial (Y/N)**	11.4.1	If the application includes the 398 Cover Page Supplement component, an answer is required if the answer to 'Human Subjects Involved' is "Yes".	The Human Subjects Clinical Trial question on the PHS 398 Cover Page Supplement must be answered if the answer to 'Human Subjects Involved' on the Other Project information page is "Yes".	
		11.4.2	If Human Subjects NIH-Defined Phase III Clinical Trial is true, must be true.	The Human Subjects Clinical Trial question on the PHS 398 Cover Page Supplement must be "Yes" if the answer to Human Subjects NIH-Defined Phase III Clinical Trial is "Yes".	
		11.4.3	For S10 application, provide a warning if this is true.	The answer to the Human Subjects Clinical Trial question on the PHS 398 Cover Page Supplement should not be 'Yes'. The application will be processed, but a concern may be raised during review.	
Cover Page (NIH)	**Human Subjects NIH-Defined Phase III Clinical Trial (Y/N)**	11.5.1	An answer is required if the answer to 'Human Subjects Clinical Trial' is "Yes".	The Human Subjects NIH-Defined Phase III Clinical Trial question on the PHS 398 Cover Page Supplement must be answered if the answer to the Human Subjects Clinical Trial question is "Yes".	
		11.5.2	If Human Subjects Clinical Trial is false, must be false	The Human Subjects NIH-Defined Phase III Clinical Trial on the PHS 398 Cover Page Supplement must be "No" if the answer to the Human Subjects Clinical Trial question is "No".	
Cover Page (NIH)	**Applicant Organization Contact Information**		Read only, pulled from R&R		
Cover Page (NIH)	**Applicant Organization Contact Title**				
Cover Page (NIH)	**Applicant Organization Contact Street Address (1 and 2)**	11.8.1	If either line>50 characters, truncate (Minimum Validations)		
Cover Page (NIH)	**Applicant Organization Contact City**				
Cover Page (NIH)	**Applicant Organization Contact County**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Page (NIH)	**Applicant Organization Contact State**	11.11.1	Required if country is US (Minimum Validations)	The Applicant Organization State on the PHS 398 Cover Page Supplement must be supplied for US addresses.	
		11.11.2	If country is not US must be blank. (Minimum Validations)	The Applicant Organization State on the PHS 398 Cover Page Supplement should be blank for all countries other than the United States	
		11.11.3	Transform state name to 2-char abbreviation before validating and storing. If state name can't be transformed, give error. (Minimum Validations)	The Applicant Organization State on the PHS 398 Cover Page Supplement is not a valid state name.	
Cover Page (NIH)	**Applicant Organization Contact Province**	11.12.1	Required if country is Canada. (Minimum Validations)	The Applicant Organization Province must be supplied on the PHS 398 Cover Page Supplement for Canadian addresses.	Province should be mapped into same database location as state.
		11.12.2	If country is not Canada must be blank. (Minimum Validations)	The Applicant Organization Province on the PHS 398 Cover Page Supplement should be blank for all countries other than Canada.	
		11.12.3	Transform province name to 2-char abbreviation before validating and storing. If province name can't be transformed, give error. (Minimum Validations)	The Applicant Organization Province on the PHS 398 Cover Page Supplement is not a valid province name.	
Cover Page (NIH)	**Applicant Organization Contact Zip Code**	11.13.1	Required if country is US. (Minimum Validations)	The Applicant Organization Zip Code on the PHS 398 Cover Page Supplement must be entered for US addresses.	Long-term, change in eRA db to 13 characters.
		11.13.2	Must be 5 or 9 numeric digits if country is US. (Minimum Validations)	The Applicant Organization Zip Code on the PHS 398 Cover Page Supplement must be entered in 5-digit or 9-digit format.	
		11.13.3	For country other than US, if >9 characters, truncate (remove any dashes before truncating). (Minimum Validations)		
Cover Page (NIH)	**Applicant Organization Contact Country**	11.14.1	Must be a valid ISO 3166-1 alpha-3 country code.	The Applicant Organization country code provided (<Country>) on the PHS 398 Cover Page Supplement is not a valid ISO 3166-1 alpha-3 country code.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Page (NIH)	**HESC Involved (Y/N)**	11.15.1	For S10 application, display a warning if this is true.	The answer to the HESC Involved question on the PHS 398 Cover Page Supplement should be 'No'. The application will be processed, but a concern may be raised during review.	Change mapping: set Special Topic code to 13 if HESC Involved is 'yes'. This code is set in appl_special_topics_t.
		11.15.2	A response is required for this element.	A response of 'Yes' or 'No' is required for the HESC Involved (Y/N) element on the PHS 398 Cover Page.	Although the element is required by the PureEdge form, the schema does not currently require it for system to system submissions.
Cover Page (NIH)	**HESC Cell Lines**	11.16.1	If HESC involved='Y', must include this or 'Can't be Referenced'	If the answer to 'HESC involved' is "Yes" on the PHS 398 Cover Page Supplement, HESC Cell Lines must be included or the 'Can't be Referenced' checkbox must be checked.	
		11.16.2	If HESC involved='N', can't include this or 'Can't be Referenced'	If the answer to 'HESC involved' is "No" on the PHS 398 Cover Page Supplement, HESC Cell Lines may not be included and the 'Can't be Referenced' checkbox must not be checked.	
		11.16.3	If specific stem cell line is included, must be a valid stem cell line in eRA database. Comparison should not be case-sensitive. (Minimum Validations)	Stem cell line <Cell line number> on the PHS 398 Cover Page Supplement is not a valid stem cell line number.	
		11.16.4	If 'Can't Be Referenced' is checked, no other cell lines may be entered.	If the 'Can't be Referenced' checkbox is checked on the PHS 398 Cover Page Supplement, no other stem cell lines may be entered.	
Cover Page (NIH)	**HESC 'can't be referenced' checkbox**	11.17.1	If HESC involved='Y', must include this or 'HESC Cell Lines'	If the answer to 'HESC involved' is "Yes" on the PHS 398 Cover Page Supplement, HESC Cell Lines must be included or the 'Can't be Referenced' checkbox must be checked.	
		11.17.2	If HESC involved='N', can't include this or 'HESC Cell Lines'	If the answer to 'HESC involved' is "No" on the PHS 398 Cover Page Supplement, HESC Cell Lines may not be included and the 'Can't be Referenced' checkbox must not be checked.	
Modular Budget, Years 1-5 (NIH)		12.0.1	Accept submission of modular budget or detailed budget, but not both	Both a modular and a detailed budget have been included with this submission. One or the other may be submitted.	
		12.0.2	Do not accept a modular budget for R13 applications (activity code on funding opportunity = 'R13' or 'U13')	Modular budgets may not be submitted for Conference Grant applications.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		12.0.3	Do not accept a modular budget for an application where the applicant organization is foreign.	Applications with modular budgets may not be submitted by a foreign applicant organization. Please submit using the 424 RR Budget component.	
		12.0.4	For a revision, if the parent grant budget is non-modular, only a detailed budget component may be submitted.	The parent grant for this revision uses the non-modular format; therefore, this application may include a detailed R&R budget component only.	
		12.0.5	For an R15 application (activity code on funding opportunity = 'R15'), return warning if more than one budget period has been included.	An AREA grant should be submitted for one budget period only (see the PHS 398 Modular Budget).	
		12.0.6	Do not accept a modular budget for SBIR/STTR applications	Modular budgets may not be submitted for SBIR/STTR submissions.	
		12.0.7	For an SC2 application, provide an error if more than three budget periods have been included	An SC2 application may be submitted for a maximum of three budget periods.	
		12.0.8	For an SC3 application, provide an error if more than four budget periods have been included	An SC3 application may be submitted for a maximum of four budget periods.	
Modular Budget, Years 1-5 (NIH)	**Start Date**	12.1.1	For budget period 1, if entered, for new applications and resubmissions to new applications, must be the same as the Project Start Date listed on the SF 424 RR Face Page (Minimum Validations)	For new applications and resubmissions, the modular budget year 1 start date must be the same as the proposed project start date listed on the SF 424 RR Cover Page.	
		12.1.2	For budget years after budget year 1, if entered, must be greater than or equal to the Proposed Project Start Date listed on the SF 424 RR Face Page.	The start date for budget year <budget year> must be equal to or later than the proposed project start date listed on the SF 424 RR Cover page.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Modular Budget, Years 1-5 (NIH)	**End Date**	12.2.1	Budget period end date must be greater than budget period start date and less than or equal to project period end date.	The modular budget year <budget year> end date must be later than the modular budget year <budget year> start date and less than or equal to the proposed project end date listed on the SF 424 RR Cover page.	
Modular Budget, Years 1-5 (NIH)	**Direct Costs, Direct Cost Less Consortium, F&A**	12.3.1	Must be <= 250K, must be a multiple of 25K for each budget year	The total direct costs for modular budget year <budget year> are greater than $250K, or are not in increments of $25K.	
		12.3.2	For R15 submissions, provide warning if this value for *any* budget year is >= 150K.	Direct cost requests are limited to $150k a year for AREA grants (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A). Applications that exceed this limit may be delayed in the peer review process or rejected.	
		12.3.3	For R03 submissions, provide warning if this value for any budget year is >50K (LV).	Direct cost requests are limited to $50k a year for this application (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A9). Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		12.3.4	For R21 submissions, provide warning if this value for any budget year is >200K (LV).	Direct cost requests are limited to $200k a year for this application (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A). Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable direct cost limitations for this FOA (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A). Otherwise, your application may be delayed and rejected in the review process.	
		12.3.5	For R34 submissions, provide warning if this value for any budget year is >225K (LV).	Direct cost requests are limited to $225k a year for this application (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A). Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		12.3.6	For SC2 or SC3 submissions, provide error if this value for *any* budget year is >100k	Direct cost requests are limited to $100k a year for this application (PHS 398 Modular Budget, Direct Costs, Direct Cost Less Consortium, F&A).	
Modular Budget, Years 1-5 (NIH)	**Direct Costs, Consortium, F&A**	12.4.1	Must be less than 10,000,000,000	For NIH processing, the Consortium F&A amount on the PHS 398 Modular Budget must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	**Direct Costs, Total Direct Costs**	12.5.1	Must equal sum of Direct Cost Less Consortium, F&A and Consortium, F&A for the corresponding budget year (if both are submitted). If only Direct Cost Less Consortium, F&A is submitted for that budget year, must equal that.	The total direct costs for modular budget year <budget year> in the PHS 398 Modular Budget do not equal the sum of Direct Cost Less Consortium, F&A and Consortium, F&A	
		12.5.2	Must be less than 10,000,000,000	The Total Direct Costs amount must be less than 10,000,000,000 (PHS 398 Modular Budget).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Indirect Cost Type 1-4**				
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Indirect Cost Rate 1-4**	12.7.1	Provide warning if greater than 0 and less than 1.	Indirect Cost Rate is less than 1 for budget year <budget year> (PHS 398 Modular Budget). Please note that this figure represents a percentage.	
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Indirect Cost Base 1-4**	12.8.1	Must be less than 10,000,000,000	The Indirect Cost Base amount in the PHS 398 Modular Budget for budget year <budget year> must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Funds Requested 1-4**	12.9.1	Must be less than 10,000,000,000	The Funds Requested amount on the PH 398 Modular Budget must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.

Component	Field	Rule	Validation	Error Message	Notes & Tips
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Cognizant Agency**				
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Indirect Cost Rate Agreement Date**				
Modular Budget, Years 1-5 (NIH)	**Indirect Costs, Total Indirect Costs**	12.12.1	Must equal sum of Indirect Costs, Funds Requested 1-4 for the corresponding budget year, if any Indirect Costs were entered.	The Total Indirect Costs do not equal the sum of Funds Requested for budget year <budget year> (PHS 398 Modular Budget).	
		12.12.2	Must be less than 10,000,000,000	The Total Indirect Costs amount must be less than 10,000,000,000 (PHS 398 Modular Budget).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Years 1-5 (NIH)	**Total Direct and Indirect Costs, Funds Requested**	12.13.1	Must be greater than 0 for first budget period.	For Modular Budget Year 1, Total Direct and Indirect Costs must be greater than zero (PHS 398 Modular Budget)	
		12.13.2	Must be equal to the sum of Total Direct Costs and Total Indirect Costs for the corresponding budget period.	For Modular Budget Year <budget year> (PHS 398 Modular Budget), the Total Direct and Indirect Costs must be equal to Total Direct Costs plus Total Indirect Costs requested for that budget year.	
		12.13.3	Must be less than 10,000,000,000	The Total Direct and Indirect Costs on the PHS 398 Modular Budget amount must be less than 10,000,000,000.	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.

PHS 398 Modular Budget: Period 5 and Cumulative

Component	Field	Rule	Validation	Error Message	Notes & Tips
Modular Budget, Cumulative (NIH)	**Total Direct Cost less Consortium F&A for Entire Project Period**	13.1.1	Must be equal to the sum of all Total Direct Cost less Consortium F&A values for all budget years	The Total Direct Cost less Consortium F&A for Entire Project Period in the PHS 398 Modular Budget must be equal to the sum of Total Direct Cost Less Consortium F&A values for all budget years.	
		13.1.2	For R03 submissions, provide warning if this value is >100K (LV).	Cumulative direct cost requests on the PHS 398 Modular Budget are limited to a total of $100k for this application. Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable cumulative direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		13.1.3	For R21 submissions, provide warning if this value is >275K (LV).	Cumulative direct cost requests on the PHS 398 Modular Budget are limited to a total of $275k for this application. Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable cumulative direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		13.1.4	For R34 and U34 submissions, provide warning if this value is >450K (LV).	Cumulative direct cost requests on the PHS 398 Modular Budget are limited to a total of $450k for this application. Applications that exceed this limit may be delayed in the peer review process or rejected.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable cumulative direct cost limitations for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		13.1.5	Cannot be greater than 99,999,999.99.	The Total Direct Cost less Consortium F&A for Entire Project Period in the PHS 398 Modular Budget exceeds the allowable amount for the agency ($99,999,999).	
Modular Budget, Cumulative	**Total Consortium F&A for**	13.2.1	Must be equal to the sum of all Consortium F&A values for all budget years	The Total Consortium F&A for Entire Project Period must be equal to the sum of Consortium F&A values for all budget years (PHS 398 Modular Budget).	

Component	Field	Rule	Validation	Error Message	Notes & Tips
(NIH)	**Entire Project Period**	13.2.2	Must be less than 10,000,000,000	The Total Consortium F&A for Entire Project Period amount must be less than 10,000,000,000 (PHS 398 Modular Budget).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Cumulative (NIH)	**Total Costs, Total Direct Costs for Entire Project Period**	13.3.1	Must be equal to the sum of Total Direct Costs for all budget years	The Total Direct Costs for the Entire Proposed Project Period must be equal to the sum of the Total Direct Costs for all budget years (PHS 398 Modular Budget).	
		13.3.2	Must be less than 10,000,000,000	The Total Direct Costs for Entire Project Period amount must be less than 10,000,000,000 (PHS 398 Modular Budget).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Cumulative (NIH)	**Total Costs, Total Indirect Costs for Entire Project Period**	13.4.1	Must be equal to the sum of Total Indirect Costs for all budget years	The Total Indirect Costs Requested for Entire Project Period must be equal to the sum of Total Indirect Costs for all budget years (PHS 398 Modular Budget).	
		13.4.2	Cannot be greater than 99,999,999.99.	The Total Indirect Costs Requested for Entire Project Period in the PHS 398 Modular Budget exceeds the allowable amount for the agency ($99,999,999).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Cumulative (NIH)	**Total Costs, Total Direct and Indirect Costs for Entire Project Period**	13.5.1	Must be equal to the sum of all Total Direct and Indirect Costs values for all budget years	The Total Direct and Indirect Costs for Entire Project Period must be equal to the sum of all Total Direct and Indirect Costs values for all budget years (PHS 398 Modular Budget).	
		13.5.2	Must be less than 10,000,000,000	The Total Direct and Indirect Costs for Entire Project Period amount must be less than 10,000,000,000 (PHS 398 Modular Budget).	Grants.gov accepts up to 15 bytes (including 2 decimal places); NIH accepts no more than 10. Long-term db change is recommended.
Modular Budget, Cumulative (NIH)	**Budget Justifications, Personnel Justification**	13.6.1	Provide a warning if this attachment hasn't been included with a modular budget.	In most cases, a Personnel Justification attachment should be included if a Modular Budget is being submitted.	
Modular Budget, Cumulative (NIH)	**Budget Justifications, Consortium Justification**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Modular Budget, Cumulative (NIH)	**Budget Justifications, Additional Narrative Justification**				

Checklist

Component	Field	Rule	Validation	Error Message	Notes & Tips
Checklist (NIH)	**Type of Application**	14.1.1	Read only, pulled from R&R		
		14.1.2	Allow a submission with no Checklist component.		
Checklist (NIH)	**Federal Identifier**		Read only, pulled from R&R		
Checklist (NIH)	**Change of Investigator/ Change of Inst.; Change of PI**	14.3.1	Not accepted for revisions.	A revision may not be submitted if a Change of PI has been indicated on the PHS 398 Checklist. Revisions must have the same PI as the parent grant.	
		14.3.2	Not accepted for K applications (except K12)	Error: A Change of PI cannot be indicated on the PHS 398 Checklist for a Career Development Award application.	
Checklist (NIH)	**Change of Investigator/ Change of Inst.: Name of former PI (Prefix, First Name, Middle Name, Last Name, Suffix)**	14.4.1	Must be included if application is for change of PI	The name of the former PI must be included if there has been a Change of PI indicated on the PHS 398 Checklist.	
Checklist (NIH)	**Change of Investigator/ Change of Inst.: change of grantee inst.**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Checklist (NIH)	**Change of Investigator/ Change of Inst.: name of former inst.**	14.6.1	If >40 characters, truncate. (Minimum Validations)		Grants.gov length is 120, our db length is 40. Consider long-term db change.
Checklist (NIH)	**Inventions and Patents, Yes**				
Checklist (NIH)	**Inventions and Patents, No**				
Checklist (NIH)	**Inventions and Patents, Previously Reported (Yes or No)**	14.9.1	Must be answered if response to Inventions and Patents is 'Yes'	Inventions and Patents, Previously Reported on the PHS 398 Checklist must be answered if the answer to Inventions and Patents is 'Yes.'	
		14.9.2	Should not be answered if response to Inventions and Patents is 'No'	Inventions and Patents, Previously Reported on the PHS 398 Checklist should not be answered if the answer to Inventions and Patents is 'No'	
Checklist (NIH)	**Program Income Anticipated (Y/N)**				
Checklist (NIH)	**Program Income, Budget Period 1-5**	14.11.1	Should only be completed if answer to Program Income Anticipated question was 'Y'.	If answer to Program Income Anticipated on the PHS 398 Checklist question is 'N', no program income detail may be entered.	
		14.11.2	Provide error if provided for S10 application.	No program income may be included on the PHS 398 Checklist for S10 applications.	
		14.11.3	The number of program income budget periods must be less than or equal to the number of budgets provided in the budget component.	Anticipated amount for program income has been provided for <x> budget years on the PHS 398 Checklist. Only <y> years of budgets were provided with this application.	
Checklist (NIH)	**Program Income, Anticipated Amount 1-5**	14.12.1	Must be less than 10,000,000,000	The Program Income Anticipated Amount (PHS 398 Checklist) for budget period <budget period> must be less than 10,000,000,000.	Grants.gov accepts up to 14 bytes (including 2 decimal places); NIH accepts no more than 10, with 2 decimal places. Long-term db change is recommended.
Checklist (NIH)	**Program Income, Sources 1-5**				

Component	Field	Rule	Validation	Error Message	Notes & Tips
Checklist (NIH)	**Assurances/ Certification: Explanation**				

PHS 398 Research Plan

Component	Field	Rule	Validation	Error Message	Notes & Tips
Research Plan (NIH)	**Type of Application**	15.1.1	Read only, pulled from R&R		
		15.1.2	Allow applications to come in without this component.		
Research Plan (NIH)	**Research Plan Attachments: Introduction**	15.2.1	Required for resubmission for non-S10 applications.	An Introduction must be included for resubmissions on the PHS 398 Research Plan.	
		15.2.2	Required for revisions.	An Introduction must be included for revisions on the PHS 398 Research Plan..	
		15.2.3	Limited to 1 page for revisions.	The Introduction for a revision is limited to one page on the PHS 398 Research Plan..	
		15.2.4	Limited to 3 pages for non-SBIR/STTR and non-R36 resubmissions (except as explicitly listed below).	The Introduction is limited to three pages on the PHS 398 Research Plan.	
		15.2.5	Introduction limited to 1 page for Phase I SBIR/STTR, R03 (LV), R13, U13, R21 (LV), R36, G08, G13, SC2 and SC3 resubmissions.	The Introduction is limited to one page for this submission on the PHS 398 Research Plan.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Introduction for this FOA (see PHS 398 Research Plan). Otherwise, your application may be delayed and rejected in the review process.	
		15.2.6	Introduction limited to 3 pages for Phase II and Fast Track SBIR/STTR, R01, R18, U18, R25, R33, R21/R33, R34, U34 and G11 resubmissions, as well as for R03 and R21 resubmissions that have opted out.	The Introduction (see PHS 398 Research Plan) is limited to three pages for this submission.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		15.2.7	Provide a warning if the introduction is more than one page on a G11 resubmission.	The Introduction (see PHS 398 Research Plan) should be no more than one page for this submission. The application will be processed by the agency, but concerns may be raised during review.	
		15.2.8	Must not be included for a new or renewal application.	The Introduction (see PHS 398 Research Plan) should not be attached for a new or renewal application.	
Research Plan (NIH)	**Research Plan Attachments: Specific Aims**	15.3.1	Provide warning if Research Plan Attachments 2-5 together are greater than 25 pages and less than or equal to 28 pages (applies to all applications not specifically listed below, including Fast Track) (LV) for R01, R18, U18, R25, R33, R21/R33, R34 and U34). Does not apply to UH2/UH3 applications.	The Research Plan is limited to 25 pages. This may span 28 pages due to page breaks. If the total space occupied by text does not exceed 25 pages then no action is needed.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		15.3.2	Research Plan Attachments 2-5 together must be less than or equal to 28 pages (applies to all applications not specifically listed below, including Fast Track) ((LV) for R01, R18, U18, R25, R33, R21/R33, R34 and U34). Does not apply to UH2/UH3 applications.	The Research Plan is limited to 25 pages. This may span 28 pages due to page breaks.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		15.3.3	For SBIR/STTR Phase I, R21(LV), G08, G11, G13, SC2 and SC3, provide warning if Research Plan Attachments 2-5 together are greater than 15 pages and less than or equal to 18 pages	The Research Plan is limited to 15 pages. This may span 18 pages due to page breaks. If the total space occupied by text does not exceed 15 pages then no action is needed.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		15.3.4	For SBIR/STTR Phase I R21 (LV), G08, G11, G13, SC2 and SC3, Attachments 2-5 together must be less than or equal to 18 pages	The Research Plan f is limited to 15 pages. This may span 18 pages due to page breaks.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		15.3.5	For conference grant applications (activity code on funding opportunity = 'R13' or 'U13'), Research Plan Attachments 2-5 together must be less than or equal to 10 pages.	The Conference Plan for a Conference Grant application is limited to 10 pages (PHS 398 Research Plan).	Applicants will be instructed to submit one attachment only, in the Research Design and Methods attachment.
		15.3.6	For R13 or U13 applications submitted to AHRQ, Research Plan Attachments 2-5 together must be less than or equal to 15 pages	The Conference Plan for an AHRQ Conference Grant application is limited to 15 pages (PHS 398 Research Plan).	AHRQ applications can be identified by a value of 'HS' in rfa_pa_notices_t.phs_org_code.
		15.3.7	For R36 and R03 (LV) applications, provide warning if Research Plan Attachments 2-5 together are greater than 10 pages and less than or equal to 13 pages.	The Research Plan is limited to 10 pages. This may span 13 pages due to page breaks.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		15.3.8	For R36, X01, and R03 (LV) applications, Research Plan Attachments 2-5 together must be less than or equal to 13 pages.	The Research Plan is limited to 10 pages. This may span 13 pages due to page breaks.	
				Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		15.3.9	For X01 applications, provide a warning if Research Plan Attachments 2-5 together are greater than 10 pages and less than or equal to 26 pages.	Be sure that you have complied with the allowable page limitations for the Research Plan for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		15.3.10	For X01 applications, provide a warning if Research Plan Attachments 2-5 together are greater than 25 pages and less than or equal to 28 pages.	If the Research Plan for your FOA is limited to 25 pages, then the actual span may be 28 pages due to page breaks. If the total space occupied by text does not exceed 25 pages then no action is needed.	
		15.3.11	For X01 applications, provide an error if Research Plan Attachments 2-5 together are greater than 28 pages.	If the Research Plan for your FOA is limited to 25 pages, then the actual span may be 28 pages due to page breaks. You have exceeded 28 pages.	
Research Plan (NIH)	**Research Plan Attachments: Background and Significance**		.		.
Research Plan (NIH)	**Research Plan Attachments: Preliminary Studies/ Progress Report**	15.5.1	Must be included for renewals, revisions, and Phase II SBIR. Exceptions to this validation are S10 and R13.	A Progress Report attachment must be included for renewals (competing continuations), revisions (supplements), and Phase II SBIR/STTR applications (see the PHS 398 Research Plan).	
Research Plan (NIH)	**Research Plan Attachments: Research Design and Methods**	15.6.1	Required for all submissions except S10.	The Research Design and Methods section of the PHS 398 Research Plan must be attached to the application.	To include DP3 when fixed as part of defect
		15.6.2	For DP3 applications, provide error if Research Design and Methods attachment greater than 10 pages	The Essay (Research Plan, Research Design and Methods) is limited to 10 pages for this application.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Research Plan (NIH)	**Research Plan Attachments: Inclusion Enrollment Report**				
Research Plan (NIH)	**Research Plan Attachments: Progress Report Publication List**				
Research Plan (NIH)	**Research Plan Attachments: Protection of Human Subjects**	15.9.1	Required for all applications except S10, DP1 and DP2, if Human Subjects is 'yes'.	A Protection of Human Subjects attachment must be included on the PHS 398 Research Plan page if the response to the Human Subjects question on the Other Project Information page is 'Yes'.	
Research Plan (NIH)	**Research Plan Attachments: Inclusion of Women and Minorities**	15.10.1	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Inclusion of Women and Minorities Attachment must be included on the PHS 398 Research Plan page if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Research Plan (NIH)	**Research Plan Attachments: Targeted/ Planned Enrollment Table**	15.11.1	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Targeted/Planned Enrollment Table Attachment must be included on the PHS 398 Research Plan page if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Research Plan (NIH)	**Research Plan Attachments: Inclusion of Children**	15.12.1	Required for non-S10 applications if Human Subjects is true and Exemption is not E4	The Inclusion of Children Attachment must be included on the PHS 398 Research Plan page if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Research Plan (NIH)	**Research Plan Attachments: Vertebrate Animals**	15.13.1	Required for all applications except S10, DP1 and DP2 if VertebrateAnimalsUsedQuestion is Y	A Vertebrate Animals attachment must be included on the PHS 398 Research Plan page if the response to the Vertebrate/Animals Subject Used Question on the Other Project Information page is 'Yes'	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Research Plan (NIH)	**Research Plan Attachments: Select Agent Research**				
Research Plan (NIH)	**Research Plan Attachments: Multiple PI Leadership Plan**	15.15.1	Required if multiple PIs are included with the submission	The Multiple PI Leadership Plan attachment on the PHS 398 Research Plan must be included if multiple PIs have been included on the Senior/Key Person page.	
Research Plan (NIH)	**Research Plan Attachments: Consortium/ Contractual Arrangements**	15.16.1	Required for an S11 application.	An S11 application must include a Consortium/Contractual Arrangement attachment on the PHS 398 Research Plan.	
Research Plan (NIH)	**Research Plan Attachments: Letters of Support**	15.17.1	Required for an R36 application (activity code on funding opportunity = 'R36')	An R36 application must include a Letters of Support attachment on the PHS 398 Research Plan. Certification Letters should be included in this attachment.	
		15.17.2	Required for an S11 application.	An S11 application must include a Letters of Support attachment on the PHS 398 Research Plan.	
Research Plan (NIH)	**Research Plan Attachments: Resource Sharing Plan**				
Research Plan (NIH)	**Research Plan Attachments: Appendix**	15.19.1	Limited to 10 appendixes	You have submitted more than 10 appendices on the PHS 398 Research Plan. There is a limit of 10 appendix attachments allowed.	
		15.19.2	At least one appendix is required for an R36 application (activity code on funding opportunity = 'R36').	An R36 application must include at least one Appendix attachment in the PHS 398 Research Plan. Transcripts should be included in this attachment.	
		15.19.3	Appendixes are not allowed for SBIR or STTR Phase I applications, unless the application is in response to an RFA.	Appendices may not be submitted for a Phase I SBIR or STTR application on the PHS 398 Research Plan.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
		15.19.4	Provide a warning if an appendix is submitted for an SBIR or STTR Phase I application that is in response to an RFA.	For most RFAs, the submission of appendices with a Phase I SBIR or Phase I STTR is not permitted. Be sure that you have complied with the guidance provided for appendices in this FOA. Otherwise, your application may be delayed or rejected in the review process.	

PHS 398 Cover Letter

Component	Field	Rule	Validation	Error Message	Notes & Tips
Cover Letter (NIH)	**Cover Letter attachment**	16.1.1	For an R13 application (activity code on funding opportunity = 'R13' or 'U13'), provide warning if the cover letter is not attached.	For NIH applications only, a cover letter should be attached in the PHS 398 Cover Letter section indicating NIH institute approval for a Conference Grant application.	
		16.1.2	For an application responding to a collaborative announcement, provide a warning if this attachment is not included.	This funding opportunity allows submission of a collaborative group of applications. A Cover Letter attachment must be included (using the PHS 398 Cover Letter component) for all applications that are being submitted as part of a collaborative group. If this application is part of a collaborative group, please make sure you have included a cover letter; otherwise this application will be accepted by the agency, but may be delayed in future processing. If this application is not part of a collaborative group, no further action is required.	Will need to add indicator to database to identify collaborative announcement, defaulted to 'no'
		16.1.3	Required for K applications where reference letter is required (mentored Ks).	A cover letter must be attached for this application. Please include the names of the referees for this application in the cover letter	
Career Dev. Award (NIH)	**Type of Application**	17.1.1	Read only, pulled from R&R		
Career Dev. Award (NIH)	**Career Dev. Award Attachments: Introduction**	17.2.1	Required for resubmission	An Introduction must be included for resubmissions on the PHS 398 Career Development Award Supplemental Form.	
		17.2.2	Required for revisions.	An Introduction must be included for revisions on the PHS 398 Career Development Award Supplemental Form.	Rule not implemented as part of the October 2008 release due to the form not accepting the attachment for Revisions.
		17.2.3	Limited to 1 page for revisions	The Introduction for a revision is limited to one page on the PHS 398 Career Development Award Supplemental Form.	
		17.2.4	Limited to 3 pages for resubmissions.	The Introduction is limited to three pages on the PHS 398 Career Development Award Supplemental Form.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Candidate's Background**				
		17.3.1	Provide warning if Candidate Information section attachments 2-5 and Research Plan attachments 10-13 together are greater than 25 pages and less than or equal to 32 pages (LV)	The Candidate Information and Research Plan sections together are limited to 25 pages. This may span 32 pages due to page breaks	
		17.3.2		Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Candidate Information section for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		17.3.3	Candidate Information section attachments 2-5 and Research Plan attachments 10-13 together must be less than or equal to 32 pages (LV)	The Candidate Information and Research Plan sections together are limited to 25 pages. This may span 32 pages due to page breaks	
		17.3.4		Warning message for 'opt out' announcements: Be sure that you have complied with the allowable page limitations for the Candidate Information sections for this FOA. Otherwise, your application may be delayed and rejected in the review process.	
		17.3.5	Required for all K applications, except K12	The Candidate's Background attachment is required on the PHS 398 Career Development Award Supplemental Form.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Career Goals and Objectives**	17.4.**1**	Required for all K applications, except K12	The Career Goals and Objectives attachment is required on the PHS 398 Career Development Award Supplemental Form.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Career Development/ Training Activities During Award Period**	17.5.1	Required for all K applications, except K12	The Career Development/Training Activities During Award Period attachment is required on the PHS 398 Career Development Award Supplemental Form.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Training in the Responsible Conduct of Research**	17.6.1	Required for all K applications, except K12	The Training in the Responsible Conduct of Research attachment is required on the PHS 398 Career Development Award Supplemental Form.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Mentoring Plan**	17.7.1	Provide error if provided for a mentored K application	A Mentoring Plan should not be submitted for this application	
		17.7.2	Required for K05 and K24 applications	For K05 and K24 applications the Mentoring Plan attachment is required on the PHS 398 Career Development Award Supplemental Form.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Statements by Mentor, Co-Mentors, Consultants, Contributors**	17.8.1	Required for all mentored K applications	The Statements by Mentor, Co-Mentors, Consultants, Contributors attachment is required for this application.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Description of Institutional Environment**	17.9.1	Required for all K applications, except K12	The Description of Institutional Environment attachment is required on the PHS 398 Career Development Award Supplemental Form.	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Institutional Commitment to Candidate's Research Career Development**	17.10.1	Required for all K applications, except K12	The Institutional Commitment to Candidate's Research Career Development attachment is required on the PHS 398 Career Development Award Supplemental Form.	
Career Dev. Award (NIH)	**Career Dev.Award Attachments: Specific Aims**	17.11			
Career Dev. Award (NIH)	**Career Development Award Attachments: Background and Significance**	17.12			
Career Dev. Award (NIH)	**Career Development Award Attachments: Preliminary Studies/Progress Report**	17.13.1	Must be included for renewals and revisions.	A Progress Report attachment must be included for renewals (competing continuations) and revisions (supplements) (see the PHS 398 Career Development Award Supplemental Form).	
Career Dev. Award (NIH)	**Career Development Award Attachments: Research Design and Methods**	17.14.1	Required for all submissions.	The Research Design and Methods section of the PHS 398 Career Development Award Supplemental Form must be attached to the application.	
Career Dev. Award (NIH)	**Career Development Award Attachments: Inclusion Enrollment Report**	17.15			

Component	Field	Rule	Validation	Error Message	Notes & Tips
Career Dev. Award (NIH)	**Career Development Award Attachments: Progress Report Publication List**	17.16			
Career Dev. Award (NIH)	**Career Development Award Attachments: Protection of Human Subjects**	17.17.1	Required if Human Subjects is 'yes'.	A Protection of Human Subjects attachment must be included on the PHS 398 Career Development Award Supplemental Form if the response to the Human Subjects question on the Other Project Information page is 'Yes'.	
Career Dev. Award (NIH)	**Career Development Award Attachments: Inclusion of Women and Minorities**	17.18.1	Required if Human Subjects is true and Exemption is not E4	The Inclusion of Women and Minorities Attachment must be included on the PHS 398 Career Development Award Supplemental Form if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Career Dev. Award (NIH)	**Career Development Award Attachments: Targeted/Planned Enrollment Table**	17.19.1	Required if Human Subjects is true and Exemption is not E4	The Targeted/Planned Enrollment Table Attachment must be included on the PHS 398 Career Development Award Supplemental Form if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Career Dev. Award (NIH)	**Career Development Award Attachments: Inclusion of Children**	17.20.1	Required if Human Subjects is true and Exemption is not E4	The Inclusion of Children Attachment must be included on the PHS 398 Career Development Award Supplemental Form if the response to the Human Subjects question on the Other Project Information Page is 'Yes' and if the Exemption Number is not 4.	
Career Dev. Award (NIH)	**Career Development Award Attachments: Vertebrate Animals**	17.21.1	Required if Vertebrate Animals is true	A Vertebrate Animals attachment must be included on the PHS 398 Career Development Award Supplemental Form if the response to the Vertebrate/Animals Subject Used Question on the Other Project Information page is 'Yes'	

Component	Field	Rule	Validation	Error Message	Notes & Tips
Career Dev. Award (NIH)	**Career Dev. Award Attachments: Select Agent Research**	17.22			
Career Dev. Award (NIH)	**Career Dev. Award Attachments: Consortium/Contractual Arrangements**	17.23			
Career Dev. Award (NIH)	**Career Dev. Award Attachments: Resource Sharing Plan(s)**	17.24			
Career Dev. Award (NIH)	**Career Dev. Award Attachments: Appendix**	17.25.1	Limited to 10 appendixes	You have submitted more than 10 appendices on the PHS 398 Career Development Award Supplemental Form. There is a limit of 10 appendix attachments allowed.	
Career Dev. Award (NIH)	**Citizenship**	17.26.1	Provide warning on any K application other than K99 where 'Non-U.S. Citizen with temporary U.S. visa' is checked	You have selected a citizenship choice 'Non-U.S. Citizen with temporary U.S. visa' on the PHS 398 Career Development Award Supplemental Form. This is not a valid citizenship option for this application.	