





Exchange Services
Notes, Tips and Validations
(with changes tracked)
for Grants.gov Components

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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 PureEdgeTM 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.

Revision Summary

Version Povision

Number	Date	Summary of Changes
2.8	April 16,	Requirements for 200706 release
	2007	Resubmission where prior was withdrawn after review should not cause error on summary statement
		Remove warning on non-matching EIN
		• For STTR, perform different validation on non-zero entry for months
		Change validation on position/title
		Capture person employment roles
		Change validations on key person Commons account/name
		Change text of various error messages
		• Removed validation on authorized representative address line 1 and 2

Summary of Changes

Key

	Not accepted at this time
Red text	Indicates new information since the last version.
Strike through red text	Indicates deleted information.
(Other Agency)	Other Agency mechanisms that have not transitioned for NIH will be subject to a set of minimum validations and are identified as 'Other Agency' in this document.

Truncated Items—Note: where items are truncated, grant image should display value as submitted through grants.gov, unless otherwise indicated. (Other Agency)

Validations at Schema Level—The implementation of some validation requirements may be done at the schema level rather than at the application validation level. The validation requirement does not change; however, in some cases, the error message may be different. The error messages in this table apply only in those cases where the validation is done at the application validation level. (Other Agency)

Attachment Validations—A validation needs to be done on all attachments (including appendices) to make sure they are in .pdf format. If an attachment is not in .pdf format, the following error should be returned: "The <attachment> attachment is not in PDF format, or the filename is invalid. All attachments

must be provided to the agency in PDF format; filenames must be included with no spaces or special characters (including brackets), and a .pdf extension must be used." (Other Agency)

If an attachment is empty (0 bytes), the following error should be returned: "The <attachment> attachment was empty. PDF attachments cannot be empty attachments. Please submit a changed/corrected application with the correct PDF attachment." (Other Agency)

If editable PDFs are included, the Exchange software should 'flatten' the PDF so that it can be processed. If Exchange Services detects that the flattening process did not work, the following error should be returned: "The <attachment> attachment contained formatting or features not currently supported by NIH. Help with PDF attachments can be found at http://era.nih.gov/ElectronicReceipt/pdf_guidelines.htm." (Other Agency)

If a PDF with password protection has been included, the following error should be returned: "The <attachment> attachment has password protection. PDF attachments must not include password protection. Help with PDF attachments can be found at http://era.nih.gov/ElectronicReceipt/pdf_guidelines.htm. (Other Agency)

If there is a processing error on an attachment (other than errors listed here), the following error should be returned: "There was a processing error on page <page number> of the <attachment> attachment. This prevented successful processing of the application. Please contact the eRA Help Desk for assistance."

(Other Agency)

For attachments, the software should detect the page width and height. If the page size is greater than 11×11 inches or less than 8.5×8.5 inches, the software should change the page size from the actual size to 8.5×11 inches. (Other Agency)

Trimming Spaces—For all validations where a comparison is being made on text entry (or dropdown) fields against the eRA database, trim spaces at the end before making the comparison. (Other Agency)

Limited Validations and Opting Out—For some mechanisms, there is a set of limited validations that will apply to all PAs and PASs, and to any PARs and RFAs that don't 'opt out'. Limited validations have been indicated where applicable below by 'LV'.

The 'opt out' indicator will need to be added for each announcement stored in the database, defaulting to 'opt in'. For now, data will be updated manually to set the indicator for specific records to 'opt out'; eventually, this will become part of the Receipt and Referral RFA/PA Maintenance screen.

If an announcement is 'opt out', *none* of the limited validations for the corresponding mechanism will be performed for applications submitted in response to that announcement. However, PARs and RFAs that opt out of the limited validations will get a generic warning message if they exceed the threshold for the corresponding validation. In each case, the specific generic message is included in the table below.

PARs and RFAs that opt out of the limited validations are still subject to the validations that have not been identified as limited validations.

Identifying a Combined Mechanism—A Combined Mechanism identifier needs to be added to the information for each announcement stored in the database. This will be used to identify any allowable pairs of mechanisms for an announcement. The identifier can be used in conjunction with the activity code to indicate which combined mechanism is being represented. For now, the only allowable pair that will be identified with the identifier is R21/R33; an activity code of R21 plus this indicator will indicate a combined R21/R33.

Identifying Small Business Type—An indicator for whether an announcement is an SBIR or an STTR needs to be added to the information for each small business announcement stored in the database.

Minimum Validations for Specific (minimum validations, identified as 'O found in a property file.	Other Agency Mechanisms— Other Agency' in the validation	—Other Agency mechanisms ns listed below and in the pro	that have not transitioned for occasing sections above. The	NIH will be subject to a set of affected mechanisms are to be

SF424 (R&R)

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Type of Submission (Pre-App, App, Changed App)	For non-X02 submissions, do not accept 'Pre-application' as submission type (Other Agency)	'Pre-application' (SF 424 RR cover page, Type of Submission) is not a recognized submission type for these applications.	
		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.	
		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. (Other Agency)	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.	
		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.	
		Do not accept changed/corrected application if the original application has been verified	Your application has already been submitted for processing by NIH staff. Please contact the Scientific Review Administrator (SRA) for permission to submit corrections.	Already existing business rule—added for Service Provider documentation purposes.
SF424 (R&R)	Date Submitted	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)	Applicant Indentifier	Provide a warning if this has not been entered for a DP1 application.	For Pioneer Award applications, the Area of Science must be entered in the Applicant Identifier field on the SF 424 RR Cover Page.	For DP1 applications, map the value in this field to a column in check_list_details_t.

Component	Field	Validation	Error Message	Notes & Tips
-		For DP1 application, provide a warning if	For Pioneer Award applications, the Area of	For DP1 applications that do not
		the entry is not digits, or is more than two	Science (entered in the Applicant Identifier	have 1 or 2 digits entered in this
		digits.	field on the SF 424 RR Cover Page) is limited	field, do not map the value in the
			to two digits.	field to the database.
SF424 (R&R)	Date Received			
GE 40.4 (D.0.D.)	by State			
SF424 (R&R)	State			
	Application Identifier			
SF424 (R&R)	Date Received			
51 +2+ (K&K)	by Grants.gov			
SF424 (R&R)	Federal Identifier	If a resubmission, revision, or renewal, this component is mandatory (Other Agency)	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).	Schema must parse out the components of the grant number.
			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).	
		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).	
		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).	
		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.	

Component	Field	Validation	Error Message	Notes & Tips
Component	TIOM	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 'a'="" 's'.="" (example:="" (ic)="" (must="" (other="" -application="" -at="" -institute="" -support="" 1="" 1r01gm072828-01a1)="" 99suffix="" a="" agency)<="" an="" and="" anywhere="" assigned="" be="" been="" by="" charactersserial="" code="" code)="" consists="" dash).="" followed="" from="" has="" ic="" included.="" is="" least="" letter="" must="" number="" number.="" numbermechanism="" of="" one-digit="" or="" sequentially="" serial="" start="" td="" that="" the="" to="" two="" two-digit="" type="" will="" with="" within="" year=""><td>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).</td><td>TOOLO & TIPO</td></suffix></support></serial></institute></mechanism></application_type>	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).	TOOLO & TIPO
		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 NIH Institute/ Center and Serial Number. (Other Agency)	The Federal Identifier that you have entered (SF 424 RR Cover page) is not a grant number that has been previously assigned.	
		If a resubmission, revision, or renewal, or a new Phase II SBIR/STTR, mandatory components are IC and serial number. (Other Agency)	You must include the <missing component=""> of the prior grant in the Federal Identifier field on the SF 424 RR Cover Page.</missing>	

Component	Field	Validation	Error Message	Notes & Tips
		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.	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.	
		Ignore case, spaces, and punctuation on match.	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
		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. (Other Agency)	A resubmission (an amended application) cannot be submitted until the Summary Statement for the previous application has been released by the agency.	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
		For a resubmission, the prior grant must not have been awarded, unless it has been identified as interim funding. (Other Agency)	A resubmission (an amended application) cannot be submitted if a prior version in the same support year has been awarded.	the most recent prior application. Any prior grants with earlier support years are not considered part of the validations.
		For a resubmission, if the prior grant suffix code = 'A2', display a warning (default for mechanisms not otherwise defined). For a resubmission, of an R36 application	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. This application has exceeded the number of	
		(activity code on funding opportunity = 'R36'), prior grant suffix code must not = 'A2'.	resubmissions permitted and cannot be accepted.	
		For a resubmission, prior grant suffix code must not = 'A3'.	This application has exceeded the number of resubmissions permitted and cannot be accepted.	
		For a revision, the parent grant must be awarded. (Other Agency)	The parent grant for a revision must be awarded. The parent grant for this submission is not a funded grant.	

Component	Field	Validation	Error Message	Notes & Tips
		Ignore entries in this field for a DP1 application. 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.</activity>	
		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).
SF424 (R&R)	Applicant Information, Organizational DUNS	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. (Other Agency)	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.
		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.	
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	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	If either line>50 characters, truncate. (Other Agency)		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	Required if country is US. (Other Agency)	The Applicant Information State on the SF 424 RR Cover page must be supplied for US addresses.	
		If country not US must be blank. (Other Agency)	The Applicant Information State on the SF 424 RR Cover page should be blank for all countries other than the United States.	
		Transform to 2-char abbreviation before validating and storing. If state name can't be transformed, give error. (Other Agency)	The Applicant Information State on the SF 424 RR Cover page is not a valid state name.	
SF424 (R&R)	Applicant Information, Province	Required if country is Canada. (Other Agency)	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.
		If country not Canada, must be blank. (Other Agency)	The Applicant Information Province on the SF 424 RR Cover page should be blank for all countries other than Canada	
		Transform to 2-char abbreviation before validating and storing. If province name can't be transformed, give error. (Other Agency)	The Applicant Information Province on the SF 424 RR Cover page is not a valid province name.	
SF424 (R&R)	Applicant Information, Zip Code	Required if country is US. (Other Agency) Must be 5 or 9 numeric digits if country is US. (Other Agency)	The Applicant Information Zip Code on the SF 424 RR Cover page was not entered. The Applicant Information Zip Code on the SF 424 RR Cover page must be entered in 5-digit or 9-digit format.	Long-term, change in eRA db to 13 characters.

Component	Field	Validation	Error Message	Notes & Tips
		For country other than US, if >9 characters, truncate (remove any dashes before truncating). (Other Agency)		
SF424 (R&R)	Applicant Information, Country	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.	
		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.	
		For an S10, S11, S21, S22, C06, G08, UC6, or G20 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.	
		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.	
		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.	
		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.</country>	
SF424 (R&R)	Person to be Contacted	If the combination of all items in this component is more than 30 characters, truncate. Display in grant image as submitted. (Other Agency)		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		

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Person to be Contacted, e- mail	e-mail is required	The e-mail address for the Person to Be Contacted, listed on the SF 424 RR Cover page, is required.	
		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	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</email>	
SF424 (R&R)	Employer Identification	chars <> () [];: are not valid. If >12 characters, truncate (no warning). (Other Agency)	username@domainname.com	
		If <13 characters, must be either 9 characters or 12 characters (after dashes are removed). If 12 characters, don't map to database provide warning if EIN number doesn't exist in eRA database. Strip off dashes before doing comparison.	The Employer Identification Number on the SF 424 RR Cover page must be a length of 9 characters or 12 characters. The Employer Identification Number that has been entered on the SF 424 RR Cover page does not match what the agency has on file. The application will be accepted by the agency, but may be delayed in later processing.	If warning is generated, do not map EIN number to the database.
		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 databasethen provide warning if resulting EIN number doesn't exist in eRA database. Strip off dashes before doing comparison.	The Employer Identification Number that has been entered on the SF 424 RR Cover page does not match what the agency has on file.	If warning is generated, do not map EIN number to the database.
SF424 (R&R)	Type of Applicant (other, woman owned, disadvantaged)	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.

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Type of Application (New, Resub, Renewal, Contin, Revision)	Must be either New, Revision, Resubmission, or Renewal (Other Agency) Renewal is not a valid type for a Phase I SBIR/STTR, S11 X01, X02, R03, R21,	<type application="" of=""> (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). A renewal (competing continuation) cannot be submitted for this application.</type>	For a revision, define parent grant by finding the most recent type 1, type 2, or type 9 that matches on the IC and serial number provided in the Federal Identifier, where the Project Start Date on the parent is earlier
		R34, C06, UC6, G08, G13 or G20 application. Provide warning if renewal is submitted for an R21/R33 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.	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.
		Revision is not a valid type for an S10, X01, or an X02 application. For a DP1 application, must be New.	A revision (supplement) cannot be submitted for this application. Resubmissions, renewals, and revisions cannot be submitted for Pioneer Award applications. This is indicated in the Type of Application on the SF 424 RR Cover page.	Map type of application to database.
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	Truncate if >81 characters (Other Agency) 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.	Long-term, expand eRA db to 200 chars
SF424 (R&R)	Areas Affected by Project		F - y	

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Proposed	Must be later than current date (Other	The Proposed Project Start Date (SF 424 RR	
	project start	Agency)	cover page, item 13) must be later than the	
	date		Proposed Project Start Date.	
SF424 (R&R)	Proposed	Must be later than ProjectStartDate	The Proposed Project Ending Date (SF 424	
	project ending		RR cover page, item 13) must be later than the	
	date	E DOG (D) DOG (D)	Proposed Project Start Date	
		For an R03 (LV), R21 (LV), or R36	The project period for this type of application	
		application, return warning if project period is more than two years long.	is limited to two years. Warning message for 'opt out'	
		Define project period by time span	announcements: Be sure that you have	
		between project period start date and	complied with the allowable project period	
		project period end date as entered on the	limitations for this FOA. Otherwise, your	
		SF424 (R&R) Face Page.	application may be delayed and rejected in the	
		Si 121 (Recit) i dec i age.	review process.	
		For an R15, R33 (LV), R34 (LV), G08, or	The project period for this type of application	
		G13 application, return warning if project	is limited to three years. The application will	
		period is more than three years long.	be accepted, but may be delayed in the peer	
		Define project period by time span	review process.	
		between project period start date and	Warning message for 'opt out'	
		project period end date as entered on the	announcements: Be sure that you have	
		SF424 (R&R) Face Page.	complied with the allowable project period	
			limitations for this FOA. Otherwise, your	
			application may be delayed and rejected in the	
			review process.	
		For an R01 (LV) or R21/R33 pair (LV)	The project period for this type of application	
		application, return warning if project	is limited to five years. The application will be	
		period is more than five years long.	accepted, but may be delayed in the peer	
		Define project period by time span	review process.	
		between project period start date and	Warning message for 'opt out'	
		project period end date as entered on the SF424 (R&R) Face Page.	announcements: Be sure that you have	
		SF424 (R&R) Face Page.	complied with the allowable project period	
			limitations for this FOA. Otherwise, your application may be delayed and rejected in the	
			review process.	
		For a DPI application, the project period	The project period for a Pioneer Award	
		must be exactly five years long. Define	application must be five years. This is	
		project period by the number of <i>years</i>	determined by the proposed Project Start Date	
		only between the project start date and the	and the Proposed Project Ending Date on the	
		project end date.	SF 424 RR Cover page.	
		Must be no more than 20 years greater	The Proposed Project Ending Date (SF 424	
		than today's date.	RR Cover page, item 13) cannot be more than	
		-	20 years in the future.	

Component	Field	Validation	Error Message	Notes & Tips
SF424 (R&R)	Congressional districts of applicant	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 truncated. (Other Agency)	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.</congressional>	Long-term, expand eRA database to 6 chars.
	Congressional districts of project			
SF 424 (R&R)	PD/PI Contact	Required. (Other Agency)		
	Information, name (prefix, first name, middle name, last name, suffix)	If only a Commons Account is supplied, display a <i>warning</i> 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 components="" name="" profile="">, will be used for this submission.</commons></credential>	
		If this and Commons Aaccount provided (and Commons account is recognized), provide warning if last name ander first name on account doesn't match provided last name ander first name, and/or if the first initial of the middle name on the account doesn't match the first initial of the middle name that has been provided. 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 initial,="" last="" middle="" name="" name,="">, listed on the SF 424 RR Cover, does not match the name listed on the eRA Commons account: <first initial,="" last="" middle="" name="" 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.</first></first>	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.

Component	Field	Validation	Error Message	Notes & Tips
SF 424 (R&R)	PD/PI Contact	If there is no position/title entered on any	The PD/PI position/title, <position title="">,</position>	
	Information, Position/Title	title doesn't appear on an employment record for this person and organization in	listed on the SF 424 RR Cover, does not match those listed on the eRA Commons	
	1 osition/ Title	Commons, store the submitted	account: <pre><pre> account: <pre><pre><pre></pre> </pre></pre></pre></pre>	
		position/title in all employment records	commas>. The application image will display	
		for that person and organization in the	the position/title as submitted here. If the	
		Commons provide warning message and	position/title on the eRA Commons account is	
		display the submitted position/title in the grant image.	not current, please update it in the eRA Commons by editing the appropriate	
		grant image.	employment record in the PI's Personal	
			Profile.	
		Truncate if greater than 40 characters,		
		before comparing to title stored in database. No warning message is needed		
		to the submitter. (Other Agency)		
SF 424 (R&R)	PD/PI Contact			
	Information,			
	Organization			
SF 424 (R&R)	Name PD/PI Contact			
31 424 (K&K)	Information,			
	Department			
SF 424 (R&R)	PD/PI Contact			
	Information,			
SF 424 (R&R)	Division PD/PI Contact	Transform province name to 2 char.	The PD/PI Profile Province on the SF 424 RR	Long-term, change in ERA db for zip
SF 424 (K&K)	Information,	abbreviation before storing. If province	Cover is not a valid province name.	code to 13 characters
	Street 1 and 2,	name can't be transformed, give an error.	Cover is not a valid province name.	code to 15 characters
	city, state,	(Other Agency)		Map the role-level HOM address for
	province, zip,	Transform state name to 2 char.	The PD/PI Profile State on the SF 424 RR	the PD/PI based on the address
	country, phone	abbreviation before storing. If state name	Cover is not a valid state name.	submitted for the PD/PI on the 424
	number, fax number, e-mail	can't be transformed, give an error. (Other Agency)		RR Cover, instead of creating it based on the profile.
SF 424 (R&R)	PD/PI Contact	(Outer Agency)		based on the profile.
21 /2/(!!!!!)	Information,			
	County			
SF 424 (R&R)	Total estimated	For an S10 application, display a warning	The direct cost request found on item 16 of	Design note: mapping for S10s and
	project funding	if this is greater than 500k.	the SF 424 RR Cover page is greater than	X02 and DP1 for budget figures should come from this element
			500k. The application will be processed, but a concern may be raised during review.	instead of from budget components.
	<u> </u>	<u> </u>	concern may be raised during review.	mstead of from budget components.

Component	Field	Validation	Error Message	Notes & Tips
		Required for a C06, UC6, or G20 application.	Total Estimated Project Funding (SF 424 RR Cover, item 16a) is required for this application.	It should be mapped to appl_periods_t and to the following columns in appls t:
		Must be non-zero for a C06, UC6, or G20 application.	Total Estimated Project Funding (SF 424 RR Cover, item 16a) cannot be zero.	direct_cost_requested_amt, total_cost_requested_year1_amt,
		For an X01 or X02 application, provide an error if non-zero values are entered. For an S21 or S22 application, provide a	Total Estimated Project Funding in section 16 on the SF 424 RR Cover page must be zero. Total Estimated Project Funding (SF 424 RR	total_cost_requested_amt. (indirect_cost_requested_amt should be 0). For X02, all values will be
		warning if zero or null.	Cover, item 16a) should not be zero. The application will be processed, but a concern may be raised during review.	zero. For DP1, there should be five appl periods set up in appl_periods_t, and the direct_cost_amt in each of
		For a DP1 application, provide an error if not 2,500,000.	For a Pioneer Award application, Total Estimated Project Funding (SF 424 RR Cover, item 16a) must be 2.5 million.	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.)
SF 424 (R&R)	Total federal and non-federal funds	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.	
		Required for a C06, UC6, or G20 application.	Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) is required for this application.	
		Must be non-zero for a C06, UC6, or G20 application. For an S21 or S22 application, provide a	Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) cannot be zero. Total Federal and non-Federal Funds (SF 424	
		warning if zero or null.	RR Cover, item 16b) should not be zero. The application will be processed, but a concern may be raised during review.	
		For a DP1 application, provide an error if not 2,500,000.	For a Pioneer Award application, Total Federal & Non-Federal Funds (SF 424 RR Cover, item 16b) must be 2.5 million.	
SF 424 (R&R)	Estimated program income	For an X01 or X02 or DP1 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.	

Component	Field	Validation	Error Message	Notes & Tips
		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?	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	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			
SF 424 (R&R)	Authorized representative name	Truncate if first or last name>30 chars, or if suffix>5 chars. Display warning. (Other Agency)	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.</database></element>	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	Truncate if >30 chars. (Other Agency)		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,	If either line 1 or 2 > 50 characters, truncate. (Other Agency) Transform province to 2-char abbreviation for province before validating and storing. If province can't be transformed, give error. (Other Agency)	The Authorized Representative Province (SF 424 RR Cover page, item 19) is not a valid province name.	Long-term, change in eRA db for zip code to 13 characters Province should be mapped into same database location as state.

Component	Field	Validation	Error Message	Notes & Tips
	fax, e-mail	Transform state to 2 char abbreviation for state before validating and storing. If state name can't be transformed, give error. (Other Agency) If zip>9 characters, truncate. Remove dashes before truncating and/or storing (Other Agency)	The Authorized Representative State (SF 424 RR Cover page, item 19) is not a valid state name.	
SF424 (R&R)	Authorized representative county			
SF424 (R&R)	Authorized representative signature and date			
SF424 (R&R)	Pre-application attachment			
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	Validation	Error Message	Notes & Tips
Project/	Primary	Allow applications to come in		
Performance	Location,	without this component.		
Site $(R\&R)$	Organization			
	Name			
Project/	Primary			
Performance	Location,			
Site (R&R)	Street 1 and 2			
Project/	Primary			
Performance	Location, City			
<i>Site</i> (<i>R&R</i>)				
Project/	Primary			
Performance	Location,			
Site (R&R)	County			
Project/	Primary			
Performance	Location,			
Site $(R\&R)$	State			
Project/	Primary			Province should be mapped into same
Performance	Location,			database location as state.
Site (R&R)	Province			
Project/Perform	Primary			
ance Site (R&R)	Location, Zip			
, ,	code			
Project/Perform	Primary			
ance Site (R&R)	Location,			
	Country			
Project/	Location 1,			
Performance	Organization			
Site (R&R)	Name			
Project/	Location 1,			
Performance	Street 1 and 2			
Site $(R\&R)$				

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

Research & Related: Other Project Information

Component	Field	Validation	Error Message	Notes & Tips
Other Project	Human	Either ExemptionNumber or	Either Exemption Number or Assurance	
Info $(R\&R)$	Subjects	AssuranceNumber must be	Number must be provided if Human Subjects	
	Involved?	specified if	is "Yes" (Other Project Information, item 1).	
		HumanSubjectsUsedQuestion is		
		true. DP1 applications are exempt		
		from this validation.		
		If HumanSubjectsUsedQuestion is	When Human Subjects is "No", Exemption	
		false, ExemptionNumber must not	Number must not be specified (Other Project	
		be specified. DP1 applications are	Information, item 1).	
		exempt from this validation.	Will II C. 1	
		If HumanSubjectsUsedQuestion is	When Human Subjects is "No", Assurance	
		false, provide a warning if AssuranceNumber is specified.	Number does not apply (Other Project Information, item 1).	
		DP1 applications are exempt from	information, item 1).	
		this validation.		
		Must be true if Human Subjects	The 'Human Subjects Involved' question	
		Clinical Trial question is true.	(Other Project Information, item 1) must be	
		Chimear That question is true.	"Yes" if the Human Subjects Clinical Trial	
			question on the PHS 398 Cover Page	
			Supplement is "Yes".	
		For S10, S21, S22, or DP1	The answer to the Human Subjects involved	
		applications, display a warning if	question (Other Project Information, item 1)	
		this is true.	should be 'No'. The application will be	
			processed, but a concern may be raised during	
			review.	
		For DP1, do not map the answer to		
		this question to the database.		
Other Project	IRB review			
Info (R&R)	pending?	D. M. C. G.	THE IND.	
Other Project	IRB approval	Date can't be in the future (but can	The IRB approval date (Other Project	
Info (R&R) Other Project	date	be blank) Must be "E1" through "E6"	Information, item 1a) cannot be in the future. The Exemption Number (Other Project	
Info (R&R)	Exemption number	iviust de E1 unough E0	Information, item 1a) must be within the range	
mjo (K&K)	number		of E1 to E6.	
		For DP1, do not map this data to		
		the database.		

Component	Field	Validation	Error Message	Notes & Tips
Other Project Info (R&R)	Human subject assurance number	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, prefix the string with 'FWA' before validating and storing in the database. For DP1, do not map this data to	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.	
Other Project Info (R&R)	Vertebrate animals used?	the database. 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 followingeither (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).	
		For S10 or DP1 applications, display a warning if this is true. For DP1 applications, do not map the answer to this question to the database.	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?	Provide a warning if Vertebrate Animals Used is 'N' For DP1, do not map this data to	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	the database. Provide a warning if VertebrateAnimalsUsedQuestion is false For DP1, do not map this data to the database.	When Vertebrate Animals is "No", IACUC Approval Date does not apply (Other Project Information, item 2).	

Component	Field	Validation	Error Message	Notes & Tips
		The date can't be in the future	The IACUC Approval Date (Other Project	
			Information, item 2) cannot be in the future.	
Other Project	Animal	Provide a warning if	When Vertebrate Animals is "No", Assurance	
Info $(R\&R)$	Welfare	VertebrateAnimalsUsedQuestion is	Number does not apply (Other Project	
	Assurance #	false	Information, item 2).	
		For DP1, do not map this data to the database.		
		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	Proprietary	entered.		
Info (R&R)	or privileged info?			
Other Project	Impact on			
Info $(R\&R)$	environment?			
Other Project	Activities			
Info (R&R)	outside US?			
Other Project	Project	Limited to one page	The Project Summary/Abstract in Other	
Info (R&R)	Summary		Project Information, item 6 is limited to 30 lines of text.	
Other Project Info (R&R)	Project Narrative	For non-S10 and non-C06, UC6, DP1, or G20 applications, 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.
		Required for C06, UC6, or G20 applications.	Please attach the Program Narrative as the Project Narrative attachment on the Other Project Information component.	
		Limited to 40 pages for C06, UC6, or G20 applications.	The Program Narrative (Other Project Information, Project Narrative attachment) is limited to 40 pages.	
		Limited to 5 pages for DP1 applications.	The essay (Other Project Information, Project Narrative attachment) is limited to 5 pages for Pioneer Award applications.	

Component	Field	Validation	Error Message	Notes & Tips
		Limited to 10 pages for DP2	The essay (Other Project Information, Project	
		applications.	Narrative attachment) is limited to 10 pages	
			for Innovative New Investigator applications.	
Other Project	Bibliography	Provide a warning if this	In most cases, a Bibliography and References	
Info $(R\&R)$	and	attachment hasn't been included.	Cited attachment should be included.	
	References	Applications in response to		
		announcements from other		
		agencies are exempt from this validation.		
		Provide error if attached for a DP1	The Bibliography and References attachment	
		application	on the Other Project Information page may	
			not be included for a Pioneer Award	
			application.	
Other Project	Facilities and	Provide error if attached for a DP1	The Facilities and Other Resources attachment	
Info $(R\&R)$	other	application	on the Other Project Information page may	
	resources		not be included for a Pioneer Award	
	<u> </u>		application.	
Other Project	Equipment	Required for S10 applications.	The Equipment Attachment on the Other	
Info(R&R)			Project Information page is required for S10	
		Provide error if attached for a DP1	applications.	
			The Equipment attachment on the Other	
		application	Project Information page may not be included for a Pioneer Award application.	
Other Project	Other	For S10 applications, provide	At least one attachment should be provided as	Note that multiple attachments may be
Info (R&R)	attachments	warning if at least one attachment	an 'Other Attachment' on the Other Project	received with Other Attachments. They
mjo (RCR)	attacimients	has not been included for this.	Information page. Please consult the funding	should all be processed.
		has not been metaded for this.	opportunity announcement to which you are	should all be processed.
			responding, for the type(s) of information to	
			be attached. The application will be processed	
			if you have not included an 'Other	
			Attachment', but a concern may be raised	
			during review.	
		For DP1 applications, provide	For a Pioneer Award application, one and only	
		error if there is not one and only	one attachment should be provided as an	
		one attachment for this.	'Other Attachment' on the Other Project	
			Information page. This should be used for the	
			description of the applicant's most significant	
			research accomplishment.	

Component	Field	Validation	Error Message	Notes & Tips
		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.	
		For DP1 applications, limited to one page.	For a Pioneer Award application, the description of the applicant's most significant research accomplishment (submitted as 'Other Attachment' on the Other Project Information page) is limited to one page.	
		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.	
		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'.	
		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	
		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.	
		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.	
		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'.	
		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'.	

Component	Field	Validation	Error Message	Notes & Tips
		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'.	
		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'.	
		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'.	
		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.</file>	

Research & Related: Senior/Key Person Profile

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key	PD/PI Profile	Pulled from SF 424 RR Cover		Note: identify this Senior/Key Person as the
Person (R&R)	Information	component		contact PI if multiple PI roles are defined.
Senior/Key	PD/PI Profile,	Must be specified for the PD/PI	The eRA Commons Username must be	
Person (R&R)	credential	(Other Agency)	submitted for the PD/PI in the PD/PI	
			Credential field on the Senior/Key Person	
			page.	
		Truncate if greater than 30		
		characters, before comparing to		
		account stored in database. No		
		warning message is needed to the		
		submitter. (Other Agency)		
		If specified, must be a valid	The eRA Commons Username < Credential>	
		Commons account. (Other	in the PD/PI Credential field on the	
		Agency)	Senior/Key Person page is not a recognized	
			eRA Commons account.	
		For the PD/PI, this account must	The eRA Commons account indicated for the	
		be affiliated with the organization	PD/PI in the Credential field on the	
		submitting the application and	Senior/Key Person page, is not affiliated with	
		have the PI role (Other Agency)	the applicant organization. Check with your	
			eRA Commons Account Administrator to	
			make sure you have been affiliated with the	
			applicant organization.	

Component	Field	Validation	Error Message	Notes & Tips
-		For a revision, the PI should be	Warning: The eRA Commons account for the	-
		assigned to the parent grant. If the	PI in the Credential field on the Senior/Key	
		person profile for this Commons	Person page does not include the parent grant	
		account is not the same person	of this submission in its support history.	
		profile assigned as the PI to the		
		parent grant, and the last name of	Error: The parent grant that has been entered	
		the PI assigned to the parent grant	is not associated with this PI.	
		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.		
		Provide a warning if there is both	The eRA Commons account has 'SO' and 'PI'	
		an SO and a PI role associated with	roles. Please create a separate eRA Commons	
		the Commons account.	account for the SO/AOR, then delete the 'SO'	
		the commons account.	role from the account included in the	
			submission. You do not need to send a	
			changed/corrected application.	
		Provide a warning if the single role	The eRA Commons account included for the	
		associated with the Commons	PD/PI is for an SO/AOR. Please add a PI role	
		account is an SO 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.	
		For a DP1 application, the	The PD/PI for a Pioneer Award application	
		citizenship question on the	must indicate 'citizen' or 'permanent resident'	
		Commons account must be	on the Citizenship question on their Commons	
		answered.	account.	
		For a DP1 application, the	The PD/PI for a Pioneer Award application	
		citizenship question on the	must indicate 'citizen' or 'permanent resident'	
		Commons account must not have	on the Citizenship question on their Commons account. 'Non-resident' is not a valid	
		'non-resident' indicated.		
			citizenship choice.	

Component	Field	Validation	Error Message	Notes & Tips
		For a DP1 application, the PD/PI must not have been a PD/PI on a previously awarded DP1.	A Pioneer Award application cannot be submitted for a PD/PI who has previously received a Pioneer Award.	·
Senior/Key Person (R&R)	PD/PI Profile, other project role category			
Senior/Key Person (R&R)	Biosketch	Limited to four pages Limited to two pages for a DP1	The Senior/Key Person Biosketch for the PD/PID, <first last="" name="">, is longer than four pages. The Senior/Key Person Biosketch for the</first>	
		application.	PD/PI is limited to two pages for a Pioneer Award application.	
Senior/Key Person (R&R)	Current and Pending Support	Attachment is required for a DP1 application.	For a DP1 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	Truncate if first or last name>30 chars, or suffix>5 chars. (Other Agency)		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)
		If this and Commons Account provided (and Commons account is recognized), provide warning if last name and first nameany component of name on account don'tdoesn't match provided name. Comparison to ignore case and embedded spaces, but not embedded punctuation.	The name provided for Key Person <submitted (<commons="" account="" commons="" components="" does="" era="" first="" key="" last="" match="" name="" namecomponents="" namename="" not="" on="" page="" person="" profile="" senior="" the="">). The application- image will display the name as submitted.</submitted>	Post-testing solution: If validation fails, provide warning that Commons name is xxxx and 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.
		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.	If the Commons account was not recognized, store data in eappl_personnel record without the person ID.
		For DP1 applications, provide error if any senior/key persons included (other than the PD/PI on the SF 424 RR Cover)	For a Pioneer Award, 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	Validation	Error Message	Notes & Tips
Senior/Key	Profile, senior	Truncate if greater than 40		
Person (R&R)	& key person	characters. No warning message is		
	x, position	needed to the submitter. (Other		
	title	Agency)		
Senior/Key	Profile, senior	Needs to be enforced as	The organization name for Key Person < Key	
Person (R&R)	& key person	mandatory.	Person First Name Last Name> must be	
	x,		provided on the Senior/Key Person page.	
	organization			
	name			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, department			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
G 1 77	x, division			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, street 1 and 2			
C · AZ				
Senior/Key	Profile, senior			
Person (R&R)	& key person x, city			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
Terson (RGR)	x, county			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
Terson (Teat)	x, state			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
, ,	x, province			
Senior/Key	Profile, senior			Long-term, change in eRA db to 13
Person (R&R)	& key person			characters.
	x, zip code			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, country			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, phone			

Component	Field	Validation	Error Message	Notes & Tips
Senior/Key	Profile, senior			·
Person (R&R)	& key person			
	x, fax			
Senior/Key	Profile, senior			
Person (R&R)	& key person			
	x, e-mail			
Senior/Key	Profile, senior	If specified for a key person with a	The eRA Commons Username <credential>,</credential>	
Person (R&R)	& key person	PD/PI role, must be a valid	specified on the Senior/Key Person page, for	
	x, credential	Commons account. (Other	PD/PI <first last="" name="">, is not a</first>	
		Agency)	recognized eRA Commons account.	
		Truncate if greater than 30		
		characters, before comparing to		
		account stored in database. No		
		warning message is needed to the		
		submitter. (Other Agency)		
		If specified for a key person with a	The Commons account associated with	
		PD/PI role, the Commons account	<credential> does not have a PI role. Please</credential>	
		must have a PI role associated with	add a PI role to this account before submitting	
		it (may have other roles as well).	a changed/corrected application.	
		Must be specified if project role is	The eRA Commons Username has not been	
		'PD/PI'. (Other Agency)	specified in the 'Credential' field on the	
			Senior/Key Person page for PD/PI <first< th=""><th></th></first<>	
			Name Last Name>	
Senior/Key	Profile, senior	For an R36 application (activity	A mentor must be identified for an R36	
Person (R&R)	& key person	code on funding opportunity =	application. List the mentor as a key person on	
	x, project role	'R36'), there must be at least one	the Senior Key Person page.	
		key person included in addition to		
		the PD/PI identified in the PD/PI		
		component.		
		For a C06, UC6, or G20	A Facilities Person must be identified for this	
		application, there must be at least	application. Please provide the information for	
		one key person identified with a	this person after the PD/PI on the Senior/Key	
		project role of 'Other' or 'Other	Person page. Specify a project role of 'Other'	
		Professional'.	or 'Other Professional', and an Other Project	
			Role Category of 'Facilities Person'.	
		For an S11 application, there must	A Collaborator must be identified for this	
		be at least one key person	application. Please provide the information	
		identified with a project role of	for this person after the PD/PI on the	
		'Other' or 'Other Professional'.	Senior/Key Person page. Specify a project	
			role of 'Other' or 'Other Professional', and an	
			Other Project Role Category of 'Collaborator'.	

Component	Field	Validation	Error Message	Notes & Tips
		For a G11 application, do not accept a project role of PD/PI. Do not give error on Multiple PI Leadership Plan.	A role of 'PD/PI' has been indicated for Senior/Key Person <first last="" name=""> on the Senior/Key Person page. This role is only valid for the PD/PI who is listed on the SF 424 RR Cover Component.</first>	
		Provide an error if project role is 'PD/PI' and credential is the same as the PD/PI credential.	PD/PI <first 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.</first>	
		For applications that are not from other agencies, provide a warning if the 'Co-PI' role has been indicated	The role of 'Co-PI' has been indicated for Senior/Key Person <first 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.</first>	
		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.
Senior/Key Person (R&R)	Profile, senior & key person x, other project role category	Accept "Other Project Role Category" only when "Project Role" is "Other" or "Other Professional"	For key person <first last="" name=""> on the Senior/Key Person page, an 'Other Project Role Category' was submitted for a project role of <pre><pre></pre></pre></first>	
Senior/Key Person (R&R)	Senior & key person x, Biosketch	Limited to four pages	The Biosketch for Senior/Key Person <first last="" name=""> on the Senior/Key Person page is longer than four pages.</first>	
Senior/Key Person (R&R)	Senior & key person x, Current and Pending Support	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	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.	

Component	Field	Validation	Error Message	Notes & Tips
		For the Research & Related	An Additional Senior/Key Person Profiles	
		Senior/Key Person Expanded	attachment may be submitted only if 40	
		version of Key Person component,	senior/key person profiles have been	
		accept only if 40 key personnel	submitted on the Senior/Key Person page.	
		have been submitted on the		
		Senior/Key Person page.		
		Provide error if included for a DP1	The Additional Senior/Key Person Profiles	
		application.	attachment cannot be submitted for a Pioneer	
			Award application.	
Senior/Key	Additional	Accept only if an Additional	An Additional Senior/Key Person Biosketch	
Person (R&R)	Senior/Key	Senior/Key Person Profiles	attachment may be submitted on the	
	Person	attachment has been submitted and	Senior/Key Person page only if an Additional	
	Biosketch	accepted.	Senior/Key Person Profiles attachment has	
			been submitted and accepted.	
		Provide error if included for a DP1	The Additional Senior/Key Person Biosketch	
		application.	attachment cannot be submitted for a Pioneer	
			Award application.	
Senior/Key	Additional	Accept only if an Additional	An Additional Senior/Key Person Current and	
Person (R&R)	Senior/Key	Senior/Key Person Profiles	Pending Support attachment may be submitted	
	Person	attachment has been submitted and	on the Senior/Key Person page only if an	
	Current and	accepted.	Additional Senior/Key Person Profiles	
	Pending		attachment has been submitted and accepted.	
	Support	Provide error if included for a DP1	The Additional Senior/Key Person Current	
		application.	and Pending Support attachment cannot be	
			submitted for a Pioneer Award application.	

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

Component	Field	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.
		Accept submission of modular budget or detailed budget, but not both (Other Agency) Require a submission of either a modular budget or a detailed	Both a modular and a detailed budget have been included with this submission. One or the other may be submitted. You must include a budget component with this application.	
		budget component. The following mechanisms are exempt from this validation: S10, X01, X02, C06, UC6, G20, DP1, DP2-(Other Agency)		
		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.	
		An application in response to an R03, R15, R21, or R34 opportunity (but not R21/R33) must be submitted with a modular budget. Other Agency applications and 'opt out' announcements are exempt from this validation.	R03, R15, R21, and R34 applications submitted by domestic institutions (U.S.) must use the PHS 398 Modular Budget Form and not the SF 424 R&R Budget Form.	
		Applications where the applicant organization is foreign also are exempt from this validation.		
		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.	
		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	

Component	Field	Validation	Error Message	Notes & Tips
		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.	
		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)	Organization al DUNS	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.</name>	
		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 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. Budgets for the applicant organization should have the 'Project' budget type.	
Budget, A&B, Year x (R&R)	Budget type (project, subaward/ consortium)	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)	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	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 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.	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. 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	.2.11111110111001		

Component	Field	Validation	Error Message	Notes & Tips
Budget, A&B, Year x (R&R)	Senior/Key Person Name (prefix, first	Truncate if first or last name>30 chars, or if suffix>5 chars (Other Agency)		Long-term, change in eRA db to 60 chars for last name, 35 for first name, 10 for suffix (all names in db)
	name, middle name, last name, suffix)	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>	
Budget, A&B, Year x (R&R)	Senior/Key Person Project Role	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			
Budget, A&B, Year x (R&R)	Senior/Key Person Cal. Mos	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 last="" name="">, listed on the 424 RR Detailed Budget Page for budget year 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 fags.htm.</first>	
		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 last="" name="">, listed on the 424 RR Detailed Budget Page for budget year 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 fags.htm</first>	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

Component	Field	Validation	Error Message	Notes & Tips
		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 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/personmonths fags.htm.</first>	
Budget, A&B, Year x (R&R)	Senior/Key Person acad. mos	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 first="" key="" last="" name="" person="">, for budget year <budy> 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.</budy></senior>	
Budget, A&B, Year x (R&R)	Senior/Key Person		Columns.	
Budget, A&B, Year x (R&R)	Senior/Key Person Requested Salary			
Budget, A&B, Year x (R&R)	Senior/Key Person Fringe benefits			
Budget, A&B, Year x (R&R)	Senior/Key Person Funds Requested	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 first="" key="" last="" name="" person=""> 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></senior>	

Persons Attachment is included. Senior Key Persons in attachment Persons Attachment is included. Senior Key Persons in attachment Persons Attachment	Component	Field	Validation	Error Message	Notes & Tips
Senior Key Persons in attachment Table Funds Table F	Budget, A&B,	Total funds			
Persons in attachment Sudger, A&B, Year x (R&R) Total Funds Requested for all senior/Key persons Requested for the budget year.	$Year \ x \ (R\&R)$		Persons Attachment is included.		
Budget, A&B, Year x (R&R) Personnel (R&R) Personnel (Sallaget, A&B, Year x (R&R) Personnel (Sallaget, A&B, Year					
Budget, A&B, Persons Requested for all senior/key persons		Persons in		on the 424 RR Budget Page.	
Year x (R&R) requested for all senior/key persons Requested for the budget year. Studget Year> on the 424 RR Budget page (section A&B) does not equal the sum of Funds Requested for all Senior/Key Persons for the corresponding budget year.					
Budget, A&B, Year x (R&R) Personnel (Cal. Mos)	Budget, A&B,				
Budget, A&B, Year x (R&R) Personnel (Cal. Mos)	Year x (R&R)		Requested for the budget year.		
Budget, A&B, Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Personnel (Fringe		all senior/key			
Budget, A&B, Senior Key Persons attachment Arcept only if eight key personnel have been submitted on the budget page (section A&B) for budget year only if eight senior/key persons have been submitted on the budget page.		persons			
Senior Key Persons attachment Senior Key Persons A&B, For budget year sons have been submitted on the budget year sons have been submitted on the budget page. Senior Key Persons have been submitted on the					
Persons attachment page for this year. (section A&B) for budget year only if eight senior/key persons have been submitted on the budget page.					
attachment	Year x (R&R)				
Submitted on the budget page. Submitted on the budget page.			page for this year.		
Budget, A&B, Year x (R&R) Personnel, (number of personnel)		attachment			
Year x (R&R) Personnel, (number of personnel) Budget, A&B, Year x (R&R) Other (Project Role) Budget, A&B, Year x (R&R) Personnel (Project Role) Budget, A&B, Year x (R&R) Personnel (Cal. Mos) Budget, A&B, Year x (R&R) Other (Project Role) Budget, A&B, Year x (R&R) Personnel (acad.mos) Budget, A&B, Year x (R&R) Other (Summer mos) Budget, A&B, Year x (R&R) Other (Requested salary) Budget, A&B, Year x (R&R) Other (Personnel (Requested salary) Budget, A&B, Year x (R&R) Other (Personnel (Requested salary)				submitted on the budget page.	
(number of personnel)					
Budget, A&B, Other Personnel (Project Role)	Year x (R&R)				
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 (acad.mos) Budget, A&B, Year x (R&R) Personnel (summer 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		`			
Year x (R&R) 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) Personnel (summer 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					
Project Role Budget, A&B, Year x (R&R) Other Personnel (Cal. Mos)					
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 (acad.mos) Budget, A&B, Year x (R&R) Other Personnel (summer mos) Budget, A&B, Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Other Personnel (Requested salary)	Year x (R&R)				
Year x (R&R) 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 (Requested salary)	D 1 + 4 0 D				
Cal. Mos Budget, A&B, Year x (R&R) Personnel (acad.mos)					
Budget, A&B, Year x (R&R) Personnel (acad.mos) Budget, A&B, Year x (R&R) Personnel (summer mos) Budget, A&B, Other Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Personnel (Requested salary) Budget, A&B, Other Personnel (Requested salary) Budget	Year x (R&R)				
Year $x(R\&R)$ Personnel (acad.mos)Budget, $A\&B$, Year $x(R\&R)$ Other (summer mos)Budget, $A\&B$, Year $x(R\&R)$ Other (Requested salary)Budget, $A\&B$, Year $x(R\&R)$ Personnel (Requested salary)Budget, $A\&B$, Year $x(R\&R)$ Other (Personnel (Fringe)	D 1 4 4 8 D				
Gacad.mos Budget, A&B, Other Personnel (summer mos) Budget, A&B, Other Personnel (summer mos) Budget, A&B, Other Personnel (Requested salary) Budget, A&B, Other Personnel (Requested salary) Budget, A&B, Other Personnel (Fringe Personnel (Frin					
Budget, A&B, Personnel (summer mos)	Tear x (K&K)				
Year x (R&R) Personnel (summer mos) Budget, A&B, Year x (R&R) Other (Requested salary) Budget, A&B, Year x (R&R) Other (Personnel (Requested salary)) Budget, A&B, Year x (R&R) Other (Personnel (Fringe))	Rudget A & D				
Summer mos Budget, A&B, Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Personnel (Fringe Pers					
mos	Tear x (NXX)				
Budget, A&B, Personnel (Requested salary) Personnel (Personnel (Requested salary) Personnel (Fringe Personnel					
Year x (R&R) Personnel (Requested salary) Budget, A&B, Year x (R&R) Other Personnel (Fringe	Rudget A & R				
(Requested salary) (Requested salary) Budget, A&B, Year x (R&R) Other Personnel (Fringe					
salary) Budget, A&B, Other Year x (R&R) Personnel (Fringe (Fringe	I car x (Ran)				
Budget, A&B, Other Year x (R&R) Personnel (Fringe (Fringe					
Year x (R&R) Personnel (Fringe	Rudget A&R				
(Fringe					
	Icar x (Ran)				
I DEDECTION I		benefits)			

Component	Field	Validation	Error Message	Notes & Tips
Budget, A&B,	Other	Must be equal to the sum of	The Funds Requested for Other Personnel	
Year x (R&R)	Personnel	Requested Salary and Fringe	Project Role < Project Role > for Budget Year	
	(Funds	Benefits for the project role for the	<budget year=""> on the 424 RR Budget page</budget>	
	Requested)	budget year.	(section A&B) does not equal the sum of the	
			Requested Salary and the Fringe Benefits for	
			the corresponding budget year.	
Budget, A&B,	Total number	Must equal the sum of number of	The total number of Other Personnel on the	
Year x (R&R)	other	personnel for all project roles	424 RR Budget page (section A&B) does not	
	personnel	under Other Personnel.	equal the sum of the number of other	
			personnel for all project roles.	
Budget, A&B,	Total Funds	Must be equal to the sum of Funds	The Total Funds Requested for Other	
Year x (R&R)	Requested	Requested for Other Personnel for	Personnel for Budget Year <budget year=""> on</budget>	
	other	the budget year.	the 424 RR Budget page (section A&B) does	
	personnel		not equal the sum of Funds Requested for all	
			Other Personnel for the corresponding budget	
			year.	
Budget, A&B,	Total salary,	Must equal the sum of Total Funds	The Total Salary, Wages and Fringe Benefits	
Year x (R&R)	wages and	requested for all senior/key persons	for Budget Year <budget year=""> on the 424</budget>	
	fringe	and Total Funds Requested other	RR Budget page (section A&B) does not	
	benefits	personnel	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	Validation	Error Message	Notes & Tips
Budget, C, D, E,	Equipment			
Year x (R&R)	description,			
	equipment			
	item			
Budget, C, D, E,	Equipment			
Year x (R&R)	description,			
D. J. C.D. F.	funds req			
Budget, C, D, E,	Equipment			
$Year \ x \ (R\&R)$	description, total funds			
	requested in			
	attachment			
Budget, C, D, E,	Equipment	Must be equal to the sum of Funds	The Total Funds Requested for Equipment for	
Year x (R&R)	description,	Requested for equipment for the	Budget Year < Budget Year> on the 424 RR	
Tour in (Treest)	total	budget year.	Budget page (section C, D & E) does not	
	equipment		equal the sum of Funds Requested for all	
	• •		Equipment Items for the corresponding budget	
			year.	
Budget, C, D, E,	Additional			
$Year \ x \ (R\&R)$	equipment			
	attachment			
Budget, C, D, E,	Travel,			
Year x (R&R)	domestic			
D. I. C.D. F.	travel costs			
Budget, C, D, E,	Travel,			
Year x (R&R)	foreign travel costs			
Budget, C, D, E,	Total travel	Must be equal to the sum of	The Total Travel Cost for Budget Year <	
Year x (R&R)	cost	domestic travel costs and foreign	Budget Year> on the 424 RR Budget page	
Icai A (Ran)	2000	travel costs for the budget year.	(section C, D & E) does not equal the sum of	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Domestic Travel Costs and Foreign Travel	
			Costs for the corresponding budget year.	
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	tuition			

Component	Field	Validation	Error Message	Notes & Tips
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	stipends			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	travel			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
	subsistence			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
	support costs:			
D. J. C.D. F.	other			
Budget, C, D, E,	Participant/			
$Year \ x \ (R\&R)$	trainee			
	support costs:			
	description of other			
Budget, C, D, E,	Participant/			
Year x (R&R)	trainee			
Tear x (Ran)	support costs:			
	number of			
	Participants/			
	Trainees			
Budget, C, D, E,	Participant/	Must be equal to the sum of	The Total Participant/Trainee Support Costs	
Year x (R&R)	trainee	participant/trainee support costs for	for Budget Year <budget year=""> on the 424</budget>	
	support costs:	the budget year.	RR Budget page (section C, D & E) does not	
	Total		equal the sum of Participant/trainee support	
	Participant/		costs for the corresponding budget year.	
	Trainee			
	Support Costs			

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

$\begin{array}{lll} Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} \\ (materials \& supplies) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} \\ (Publication & \text{Costs}) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} \\ (Consultant & \text{Services}) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs (ADP' } \\ Computer & \text{Services}) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} & \text{Costs} \\ (Subawards) & \text{Contractual} \\ Costs & \text{Subawards} \\ Cots & \text{Costs} & \text{Subawards} \\ \\ Cots & \text{Cotractual} \\ Costs & \text{Costs} \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Cost} & \text{Costs} \\ (Equipment or Facility Rental User Fees) \\ \\ Budget, F-K, & \text{Other Direct} \\ Costs & \text{Costs} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Costs} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Other Direct} \\ Year x (R\&R) & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Budget, F-K, & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & \text{Cots} \\ (Alterations and Renovations) \\ \\ Cots & \text{Cots} & C$	Component	Field	Validation	Error Message	Notes & Tips
Budget, F-K, Year x (R&R)	Budget, F-K,	Other Direct			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Year x (R&R)	Costs			
Budget, F-K, Costs (Publication Costs)					
Year x (R&R)					
Publication Costs					
Costs Cost	$Year \ x \ (R\&R)$				
Budget, F-K, Year x (R&R)					
Year x (R&R)					
Consultant Services					
Services Other Direct Other Direct Computer Services S	Year x (R&R)				
Budget, F-K, Year x (R&R) Year x (R&R) Subswards/ Consortium/ Contractual Costs) Budget, F-K, Year x (R&R) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Costs (Other Direct Year x (R&R) Costs (Costs (
Year x (R&R) Costs (ADP/ Computer Services Budget, F-K, Year x (R&R) Costs (Subawards/ Consortium/ Contractual Costs Budget, F-K, Year x (R&R) Peer x (R&R) Budget, F-K, Year x (R&R) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Costs (Alterations And Renovations) Budget, F-K, Year x (R&R) Costs (Other Direct Costs (Alterations And Renovations) Budget, F-K, Year x (R&R) Costs (Other Direct Costs (Other Direc					
Computer Services					
Services Budget, F-K, Other Direct Year x (R&R) Costs (Subawards/ Consortium/ Contractual Costs	Year x (R&R)				
Budget, F-K, Year x (R&R)		Computer			
Year x (R&R) Costs (Subawards/ Constrium/ Contractual Costs) Costs Budget, F-K, Year x (R&R) Other Direct Costs (Equipment or Facility Rental/ User Fees) Costs (Equipment or Facility Rental/ User Fees) Budget, F-K, Year x (R&R) Other Direct (Alterations and Renovations) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Other Direct Costs (other					
Subawards Consortium Contractual Costs					
Consortium/Contractual Costs Costs	Year x (R&R)				
Contractual Costs					
Costs					
Budget, F-K, Year x (R&R)					
Year x (R&R) Costs (Equipment or Facility Rental/ User Fees) 6 Budget, F-K, Year x (R&R) Other Direct (Alterations and Renovations) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Other Direct Costs (other Costs (other	D. J. of E.V.				
(Equipment or Facility Rental/ User Fees) Budget, F-K, Year x (R&R) Budget, F-K, (Alterations and Renovations) Budget, F-K, Year x (R&R) Costs (other Direct Costs (other					
Or Facility Rental/ User Fees	rear x (K&K)				
Rental/User Fees					
Fees					
Budget, F-K, Year x (R&R)					
Year x (R&R) Costs (Alterations and Renovations) Costs (Alterations and Renovations) Budget, F-K, Year x (R&R) Other Direct Costs (other	Rudget F K				
(Alterations and Renovations) Budget, F-K, Year x (R&R) Costs (other					
and Renovations) Budget, F-K, Other Direct Year x (R&R) Costs (other	Tour A (Hall)				
Renovations) Renovations Budget, F-K, Year x (R&R) Other Direct Costs (other					
Budget, F-K, Year x (R&R) Costs (other					
Year x (R&R) Costs (other	Budget, F-K.				
UCDC11DHUH 1/	(22222)	description 1)			

Component	Field	Validation	Error Message	Notes & Tips
Budget, F-K,	Other Direct			•
Year $x(R&R)$	Costs (other1			
	funds			
	requested)			
Budget, F-K,	Other Direct			
$Year \ x \ (R\&R)$	Costs (other			
	description 2)			
Budget, F-K,	(other2 funds			
Year x (R&R)	requested)			
Budget, F-K,	Other Direct			
Year x (R&R)	Costs (other			
	description 3)			
Budget, F-K,	(other3 funds			
Year x (R&R)	requested)			
Budget, F-K,	Other Direct	Must be equal to the sum of other	The Total Other Direct Costs for Budget Year	
Year x (R&R)	Costs, Total	direct costs for the budget year.	<budget year=""> on the 424 RR Budget page</budget>	
	Other Direct		(section F-K) does not equal the sum of other	
	Costs		direct costs for all categories for the	
			corresponding budget year.	
Budget, F-K,	Total Direct	Required.	The Total Direct Costs Funds Requested for	
Year x (R&R)	Costs (A-F)		Year x is required on the 424 RR Budget page	
			(section F-K).	
		Must be equal to the sum of total	The Total Direct Costs for A-F for Budget	
		salary, wages and fringe benefits,	Year <budget year=""> on the 424 RR Budget</budget>	
		total funds requested for	page (section F-K) does not equal the sum of	
		equipment, total travel cost, total	direct costs for Sections A-F.	
		participant/trainee support costs,		
		and total other direct costs	Dot Doo Day Dot 1001	
		For R01, R03, R15, R21, and R34	R01, R03, R15, R21and R34 direct cost	
		submissions that are not from	requests of \$250K or less each year on the 424	
		another agency, provide warning if	RR Budget page (section F-K) must be in	
		subtotal direct costs for every	modules of \$25K, using the PHS 398 Modular	
		budget year is <= \$250K.	Budget Form and not the R&R Budget Form.	
		Applications where the applicant	Incorrect applications may be delayed in the	
		organization is foreign are exempt	peer review process or rejected.	
		from this validation. Calculate		
		subtotal direct costs as follows: Total Direct Costs (A-F) <i>minus</i> the		
		sum of Total Indirect Costs for all		
		budgets for the corresponding year		
		with budget type 'subaward/consortium'.		
		subaward/consortium.		

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

Component	Field	Validation	Error Message	Notes & Tips
Budget, F-K,	Indirect	Provide warning if less than 1.	The Indirect Cost Rate (on the 424 RR Budget	
$Year \ x \ (R\&R)$	Costs,		page, section F-K) is less than 1 for budget	
	Indirect Cost		Year <budget year="">. Please note that this</budget>	
	Rate		figure represents a percentage (e.g., '25.5', not	
			'.255').	
Budget, F-K,	Indirect	Provide an error if included on a	No indirect cost base may be included for this	
Year x (R&R)	Costs,	G08, S21, or S22 application.	application on the 424 RR Budget page	
	Indirect Cost		section F-K, budget year <budget year="">.</budget>	
D 1 E 17	Base	D :1 :0: 1.1		
Budget, F-K,	Indirect	Provide an error if included on a	No indirect cost funds may be requested for	
Year x (R&R)	Costs, Funds	G08, S21, or S22 application.	this application on the 424 RR Budget page	
D. I. E.K	Requested		section F-K, budget year <budget year="">.</budget>	
Budget, F-K,	Indirect			
Year x (R&R)	Costs,			
	Cognizant Federal			
	Agency			
Budget, F-K,	Total Indirect	Must be equal to funds requested	The Total Indirect Costs for Budget Year	
Year x (R&R)	Costs	for all indirect cost types	Sudget Year> on the 424 RR Budget page	
Tear x (R&R)	Costs	for an muneet cost types	(section F-K) does not equal the sum of	
			indirect costs for each indirect cost type.	
Budget, F-K,	Total Direct	Required	The Total Direct and Indirect Costs Funds	
Year x (R&R)	and Indirect	Required	Requested for Year x is required on the 424	
Tour M (Treett)	Costs		RR Budget page (section F-K).	
		Must be equal to the sum of Total	The Total Direct and Indirect Institutional	
		Direct Costs and Total Indirect	Costs on the 424 RR Budget page (section F-	
		Costs	K) is not equal to the sum of Total Other	
			Direct Costs and Total Indirect Costs.	
Budget, F-K,	Fee	A fee cannot be entered for a	A fee has been entered for year $\langle x \rangle$ of the	
Year x (R&R)		subaward/consortium budget.	budget for <organization name=""> on the 424</organization>	
		_	RR Budget page (section F-K). Fees are not	
			allowed for subaward/consortium budgets.	
Budget, F-K,	Budget	If fee is requested for SBIR/STTR,	A fee has been entered for year $\langle x \rangle$ of the	
Year x (R&R)	Justification	must not be blank or null	Project budget on the 424 RR Budget page	
, , ,			(section F-K). A Budget Justification must be	
			included if a fee has been entered.	
		If SBIR/STTR Phase I cost	The Phase I cost limitation of 100k has been	
		limitation is exceeded, must not be	exceeded. Please explain the deviation in the	
		blank or null. Cost limitation is	Budget Justification on the 424 RR Budget	
		100k, calculated as total cost	page (section F-K).	
		(direct cost, indirect cost, and fee).		

Component	Field	Validation	Error Message	Notes & Tips
		If SBIR/STTR Phase II cost	The Phase II cost limitation of 750k has been	
		limitation is exceeded, must not be	exceeded. Please explain the deviation in the	
		blank or null. Cost limitation is	Budget Justification on the 424 RR Budget	
		750k, calculated as total cost	page (section F-K).	
		(direct cost, indirect cost, and fee).		
		If Fast-Track cost limitation is	The Fast-Track cost limitation of 850k has	
		exceeded, must not be blank or	been exceeded. Please explain the deviation in	
		null. Cost limitation is 850k,	the Budget Justification on the 424 RR Budget	
		calculated as total cost (direct cost,	page (section F-K).	
		indirect cost, and fee).		
		If Phase I SBIR time limitation is	The Phase I SBIR time limitation of six	Since there is no cumulative budget
		exceeded, must not be blank or	months has been exceeded. Please explain the	justification, this validation will look at the
		null. Time limitation is six months,	deviation in the Budget Justification on the	Budget Justification for the first budget
		calculated as the time between the	424 RR Budget page (section F-K).	period. Instructions should include this.
		start date of the first budget period		
		and the end date of the last budget		
		period.		
		If Phase I STTR time limitation is	The Phase I STTR time limitation of one year	Since there is no cumulative budget
		exceeded, must not be blank or	has been exceeded. Please explain the	justification, this validation will look at the
		null. Time limitation is one year,	deviation in the Budget Justification on the	Budget Justification for the first budget
		calculated as the time between the	424 RR Budget page (section F-K).	period. Instructions should include this.
		start date of the first budget period		
		and the end date of the last budget		
		period.		
		If Phase II SBIR/STTR time	The Phase II SBIR/STTR time limitation of	Since there is no cumulative budget
		limitation is exceeded, must not be	two years has been exceeded. Please explain	justification, this validation will look at the
		blank or null. Time limitation is	the deviation in the Budget Justification on the	Budget Justification for the first budget
		two years, calculated as the time	424 RR Budget page (section F-K).	period. Instructions should include this.
		between the start date of the first		
		budget period and the end date of		
		the last budget period.		

Research & Related Budget: Cumulative Budget

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section A,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Senior/Key	
Budget (R&R)	Senior/Key	Funds Requested for all senior/key	Person Total does not equal the sum of Total	
	Person Total	persons for every budget year for	Funds Requested for all senior/key persons for	
		this budget.	all budget years.	
Cumulative	Section B,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Other	
Budget (R&R)	Other	Funds Requested for Other	Personnel Total does not equal the sum of	
	Personnel	Personnel for every budget year for	Total Funds Requested for Other Personnel	
	Total	this budget.	for all budget years.	
Cumulative	Total Number	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total	
Budget (R&R)	other	Number Other Personnel for every	Number Other Personnel does not equal the	
	personnel	budget year for this budget.	sum of Total Number Other Personnel for all	
			budget years.	
Cumulative	Total Salary,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Salary,	
Budget (R&R)	Wages, and	Salary, Wages, and Fringe Benefits	Wages, and Fringe Benefits do not equal the	
	Fringe	for every budget year for this	sum of Total Salary, Wages, and Fringe	
	Benefits	budget.	Benefits for all budget years.	
Cumulative	Section C,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Funds	
Budget (R&R)	Equipment	Funds Requested For Equipment	Requested For Equipment does not equal the	
	Totals	for every budget year for this	sum of Total Funds Requested For Equipment	
		budget.	for all budget years.	
Cumulative	Section D,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Travel	
Budget (R&R)	Travel, Total	Travel Cost for every budget year	Cost does not equal the sum of Total Travel	
		for this budget.	Costs for all budget years.	
Cumulative	Section D,	Must be equal to the sum of	The 424 RR Cumulative Budget Domestic	
Budget (R&R)	Travel,	Domestic Travel Cost for every	Travel Cost does not equal the sum of	
	Domestic	budget year for this budget.	Domestic Travel Costs for all budget years.	
Cumulative	Section D,	Must be equal to the sum of	The 424 RR Cumulative Budget Foreign	
Budget (R&R)	Travel,	Foreign Travel Cost for every	Travel Cost does not equal the sum of Foreign	
	Foreign	budget year for this budget.	Travel Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total	
Budget (R&R)	Participant/	Participant/Trainee Support Costs	Participant/Trainee Support Costs does not	
	Trainee, Total	for every budget year for this	equal the sum of Total Participant/Trainee	
		budget.	Support Costs for all budget years.	

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section E,	Must be equal to the sum of	The 424 RR Cumulative Budget	·
Budget (R&R)	Participant/	Participant/Trainee, Tuition, Fees,	Participant/Trainee, Tuition, Fees, Health	
	Trainee,	Health Insurance Costs for every	Insurance Costs does not equal the sum of	
	Tuition, Fees,	budget year for this budget.	Participant/Trainee, Tuition, Fees, Health	
	Health		Insurance Costs for all budget years.	
	Insurance			
Cumulative	Section E,	Must be equal to the sum of	The 424 RR Cumulative Budget	
Budget (R&R)	Participant/	Participant/Trainee, Stipends Costs	Participant/Trainee, Stipends Costs does not	
	Trainee,	for every budget year for this	equal the sum of Participant/Trainee, Stipends	
	Stipends	budget.	Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of	The 424 RR Cumulative Budget	
Budget (R&R)	Participant/	Participant/Trainee, Travel Costs	Participant/Trainee, Travel Costs does not	
	Trainee,	for every budget year for this	equal the sum of Participant/Trainee, Travel	
	Travel	budget.	Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of	The 424 RR Cumulative Budget	
Budget (R&R)	Participant/	Participant/Trainee, Subsistence	Participant/Trainee, Subsistence Costs does	
	Trainee,	Costs for every budget year for this	not equal the sum of Participant/Trainee,	
	Subsistence	budget.	Subsistence Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of	The 424 RR Cumulative Budget	
Budget (R&R)	Participant/	Participant/Trainee, Other Costs	Participant/Trainee, Other Costs does not	
	Trainee,	for every budget year for this	equal the sum of Participant/Trainee, Other	
	Other	budget.	Costs for all budget years.	
Cumulative	Section E,	Must be equal to the sum of the	The 424 RR Cumulative Budget Number of	
Budget (R&R)	Participant/	Number of Participants/Trainees	Participants/Trainees does not equal the sum	
	Trainee,	for every budget year for this	of the Number of Participants/Trainees for all	
	Number	budget.	budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs for every budget year	Costs does not equal the sum of Other Direct	
	Costs, Total	for this budget.	Costs for all budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, Materials and	Costs, Materials and Supplies, does not equal	
	Costs,	Supplies, for every budget year for	the sum of Other Direct Costs, Materials and	
	Materials and	this budget.	Supplies, for all budget years.	
	Supplies			
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, Publication Costs, for	Costs, Publication Costs, does not equal the	
	Costs,	every budget year for this budget.	sum of Publication Costs for all budget years.	
	Publication			
	Costs			

Component	Field	Validation	Error Message	Notes & Tips
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	-
Budget (R&R)	Other Direct	Direct Costs, Consultant Services,	Costs, Consultant Services, does not equal the	
	Costs,	for every budget year for this	sum of Consultant Services for all budget	
	Consultant	budget.	years.	
	Services			
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, ADP/Computer	Costs, ADP/Computer Services, does not	
	Costs, ADP/	Services, for every budget year for	equal the sum of ADP/Computer Services for	
	Computer	this budget.	all budget years.	
	Services			
Cumulative	Section F,	Must equal the sum of Other Direct	The 424 RR Cumulative Budget Section F,	
Budget (R&R)	Other Direct	Costs, Subawards/Consortium/	Other Direct Costs, Subaward/Consortium/	
	Costs, sub,	Contractual Costs, for every	Contractual, does not equal the sum of Other	
	consortium,	budget year for this budget.	Direct Costs, Subawards/Consortium/	
	contractual		Contractual Costs for all budget years.	
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, Equipment or	Costs, Equipment or Facility Rental, does not	
	Costs, Equip	Facility Rental, for every budget	equal the sum of Equipment or Facility Rental	
	or facility	year for this budget.	for all budget years.	
	rental			
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, Alterations and	Costs, Alterations and Renovations, does not	
	Costs,	Renovations, for every budget year	equal the sum of Alterations and Renovations	
	Alterations	for this budget.	for all budget years.	
	and Renovations			
Cumulative	Section F,	Must be equal to the sum of Other	The 424 RR Cumulative Budget Other Direct	
Budget (R&R)	Other Direct	Direct Costs, Other, for every	Costs, Other, does not equal the sum of Other	
Duagei (K&K)	Costs, other	budget year for this budget.	Direct Costs, Other for all budget years.	
Cumulative	Section G,	Required.	The 424 RR Cumulative Budget Direct Costs	
Budget (R&R)	Direct Costs	required.	is required.	
Buager (Heart)	(A-F), total	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Direct	
	= /, ••••••	Direct Costs for every budget year	Costs does not equal the sum of Total Direct	
		for this budget.	Costs for all budget years.	
		For a G08 submission with one	The 424 RR Cumulative Budget Total Direct	
		budget period, must be less than or	Costs cannot exceed \$150k if one budget	
		equal to \$150k.	period has been included.	
		For a G08 submission with two	The 424 RR Cumulative Budget Total Direct	
		budget periods, must be less than	Costs cannot exceed \$300k if two budget	
		or equal to \$300k.	periods have been included.	

Component	Field	Validation	Error Message	Notes & Tips
		For a G08 submission with three	The 424 RR Cumulative Budget Total Direct	
		budget periods, must be less than	Costs cannot exceed \$450k if three budget	
		or equal to \$450k.	periods have been included.	
Cumulative	Section H,	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Indirect	
Budget (R&R)	Indirect Costs	Indirect Costs for every budget	Costs does not equal the sum of Total Indirect	
		year for this budget.	Costs for all budget years.	
Cumulative	Section I,	Required	The 424 RR Cumulative Budget Total Direct	
Budget (R&R)	Total Direct		and Indirect Costs are required.	
	and Indirect	Must be equal to the sum of Total	The 424 RR Cumulative Budget Total Direct	
	Costs	Direct and Indirect Costs for every	and Indirect Costs do not equal the sum of	
		budget year for this budget.	Total Direct and Indirect Costs for all budget	
			years.	
Cumulative	Section J, Fee	Must be equal to the sum of Fee	The 424 RR Cumulative Budget Fee does not	
Budget (R&R)		for every budget year for this	equal the sum of the Fee for all budget years.	
		budget.		
Cumulative	Budget			
Budget (R&R)	Justification			
	(attachment)			

Construction Budget

Component	Field	Validation	Error Message	Notes & Tips
Construction	Administratio			
Budget (R&R)	n and Legal			
	Expenses,			These will have one budget period only. It
	Total Cost			should be mapped with the same start and
				end date as the project period.
Construction	Administratio			
Budget (R&R)	n and Legal			
	Expenses,			
	Costs Not			
	Allowable for			
<u> </u>	Participation	D :1		
Construction	Administratio	Provide error if not equal to	The Total Allowable Costs for Administration	
Budget (R&R)	n and Legal	column A (Total Cost) minus	and Legal Expenses (the Construction Budget)	
	Expenses, Total	column B (Costs Not Allowable for Participation).	must be equal to the difference of columns A (Total Cost) and B (Costs Not Allowable for	
	Allowable	for Participation).	Participation)	
	Costs		Participation)	
Construction	Land,			
Budget (R&R)	Structures,			
Buaget (Ran)	Rights-of-way,			
	etc., Total Cost			
Construction	Land,			
Budget (R&R)	Structures,			
0 (/	Rights-of-way,			
	etc., Costs Not			
	Allowable for			
	Participation			
Construction	Land,	Provide error if not equal to	The Total Allowable Costs for Land,	
Budget (R&R)	Structures,	column A (Total Cost) minus	Structures, Rights-of-way, Appraisals, etc.,	
	Rights-of-way,	column B (Costs Not Allowable	(Construction Budget) must be equal to the	
	etc., Total	for Participation).	difference of columns A (Total Cost) and B	
	Allowable		(Costs Not Allowable for Participation)	
	Costs			
Construction	Relocation			
Budget (R&R)	Expenses and			
	Payments,			
	Total Cost			

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

Component	Field	Validation	Error Message	Notes & Tips
Construction	Other			
Budget (R&R)	Architectural			
	and			
	Engineering			
	Fees, Costs			
	Not Allowable			
	for			
	Participation			
Construction	Other	Provide error if not equal to	The Total Allowable Costs for Other	
Budget (R&R)	Architectural	column A (Total Cost) minus	Architectural and Engineering Fees	
	and	column B (Costs Not Allowable	(Construction Budget) must be equal to the	
	Engineering	for Participation).	difference of columns A (Total Cost) and B	
	Fees, Total		(Costs Not Allowable for Participation)	
	Allowable			
	Costs			
Construction	Project			
Budget (R&R)	Inspection			
	Fees, Total			
	Cost			
Construction	Project			
Budget (R&R)	Inspection			
	Fees, Costs			
	Not Allowable			
	for			
	Participation			
Construction	Project	Provide error if not equal to	The Total Allowable Costs for Project	
Budget (R&R)	Inspection	column A (Total Cost) minus	Inspection Fees (Construction Budget) must	
	Fees, Total	column B (Costs Not Allowable	be equal to the difference of columns A (Total	
	Allowable	for Participation).	Cost) and B (Costs Not Allowable for	
	Costs		Participation)	
Construction	Site Work,			
Budget (R&R)	Total Cost			
Construction	Site Work,			
Budget (R&R)	Costs Not			
	Allowable for			
<u> </u>	Participation	D 11 10 11	TI TI 11 C	
Construction	Site Work,	Provide error if not equal to	The Total Allowable Costs for Site Work	
Budget (R&R)	Total	column A (Total Cost) minus	(Construction Budget) must be equal to the	
	Allowable	column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	

Component	Field	Validation	Error Message	Notes & Tips
Construction	Demolition			·
Budget (R&R)	and Removal,			
	Total Cost			
Construction	Demolition			
Budget (R&R)	and Removal,			
	Costs Not			
	Allowable for			
	Participation			
Construction	Demolition	Provide error if not equal to	The Total Allowable Costs for Demolition and	
Budget (R&R)	and Removal,	column A (Total Cost) minus	Removal (Construction Budget) must be equal	
	Total	column B (Costs Not Allowable	to the difference of columns A (Total Cost)	
	Allowable	for Participation).	and B (Costs Not Allowable for Participation)	
	Costs			
Construction	Construction,			
Budget (R&R)	Total Cost			
Construction	Construction,			
Budget (R&R)	Costs Not			
	Allowable for			
	Participation			
Construction	Construction,	Provide error if not equal to	The Total Allowable Costs for Construction	
Budget (R&R)	Total	column A (Total Cost) minus	(Construction Budget) must be equal to the	
	Allowable	column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	
Construction	Equipment,			
Budget (R&R)	Total Cost			
Construction	Equipment,			
Budget (R&R)	Costs Not			
	Allowable for			
Construction	Participation	Duanida aman if not a qualt	The Total Allowable Costs for Favirent	
Construction	Equipment, Total	Provide error if not equal to column A (Total Cost) minus	The Total Allowable Costs for Equipment (Construction Budget) must be equal to the	
Budget (R&R)	Allowable	column A (Total Cost) minus column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	
Construction	Miscellaneous,	101 1 atticipation).	(Cosis Not Allowable for Farticipation)	
Budget (R&R)	Total Cost			
Construction	Miscellaneous,			
Budget (R&R)	Costs Not			
Dauger (Ran)	Allowable for			
	Participation			
	1 articipation	ļ		

Component	Field	Validation	Error Message	Notes & Tips
Construction	Miscellaneous,	Provide error if not equal to	The Total Allowable Costs for Miscellaneous	
Budget (R&R)	Total	column A (Total Cost) minus	(Construction Budget) must be equal to the	
	Allowable	column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	
Construction	Subtotal 1,	Provide error if not equal to the	The Total Cost Subtotal on the Construction	
Budget (R&R)	Total Cost	sum of lines 1-11, Total Cost	Budget must be equal to the sum of total costs	
			for all Administration and Legal Expenses	
			entries	
Construction	Subtotal 1,	Provide error if not equal to the	The Costs Not Allowable for Participation	
Budget (R&R)	Costs Not	sum of lines 1-11, Costs Not	Subtotal on the Construction Budget must be	
	Allowable for	Allowable for Participation	equal to the sum of all Administration and	
	Participation		Legal Expenses entries	
Construction	Subtotal 1,	Provide error if not equal to	The Total Allowable Costs Subtotal on the	
Budget (R&R)	Total	column A (Total Cost) minus	Construction Budget must be equal to the	
	Allowable	column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	
		Provide error if not equal to the	The Total Allowable Costs Subtotal on the	
		sum of lines 1-11, Total Allowable	Construction Budget must be equal to the sum	
		costs	of all Administration and Legal Expenses	
			entries	
Construction	Contingencies			
Budget (R&R)	, Total Cost			
Construction	Contingencies			
Budget (R&R)	, Costs Not			
	Allowable for			
	Participation			
Construction	Contingencies	Provide error if not equal to	The Total Allowable Costs for Contingencies	
Budget (R&R)	, Total	column A (Total Cost) minus	on the Construction Budget must be equal to	
	Allowable	column B (Costs Not Allowable	the difference of columns A (Total Cost) and	
	Costs	for Participation).	B (Costs Not Allowable for Participation)	
Construction	Subtotal 2,	Provide error if not equal to the	The Total Cost Subtotal on the Construction	
Budget (R&R)	Total Cost	sum of lines 12 and 13, Total Cost	Budget must be equal to the sum of	
			Contingencies and the subtotal of all	
			Administration and Legal Expenses entries	
Construction	Subtotal 2,	Provide error if not equal to the	The Costs Not Allowable for Participation	
Budget (R&R)	Costs Not	sum of lines 12 and 13, Costs Not	Subtotal on the Construction Budget must be	
	Allowable for	Allowable for Participation	equal to the sum of Contingencies and the	
	Participation		subtotal of all Administration and Legal	
			Expenses entries	

Component	Field	Validation	Error Message	Notes & Tips
Construction	Subtotal 2,	Provide error if not equal to	The Total Allowable Costs Subtotal on the	·
Budget (R&R)	Total	column A (Total Cost) minus	Construction Budget must be equal to the	
	Allowable	column B (Costs Not Allowable	difference of columns A (Total Cost) and B	
	Costs	for Participation).	(Costs Not Allowable for Participation)	
		Provide error if not equal to the	The Total Allowable Costs Subtotal on the	
		sum of lines 12 and 13, Total	Construction Budget must be equal to the sum	
		Allowable Costs	of Contingencies and the subtotal of all	
			Administration and Legal Expenses entries	
Construction	Project			
Budget (R&R)	(Program)			
	Income, Total			
	Cost			
Construction	Project			
Budget (R&R)	(Program)			
0 ()	Income, Costs			
	Not Allowable			
	for			
	Participation			
Construction	Project	Provide error if not equal to	The Project (Program) Income, Total	
Budget (R&R)	(Program)	column A (Total Cost) minus	Allowable Costs on the Construction Budget	
	Income, Total	column B (Costs Not Allowable	must be equal to the difference of columns A	
	Allowable	for Participation).	(Total Cost) and B (Costs Not Allowable for	
	Costs		Participation)	
Construction	Total Project	Provide error if not equal to line 14	The Total Project Costs, Total Cost on the	
Budget (R&R)	Costs, Total	minus line 15, Total Cost	Construction Budget must be equal to the	
	Cost	·	subtotal minus the Project Income.	
Construction	Total Project	Provide error if not equal to line 14	The Total Project Costs, Costs Not Allowable	
Budget (R&R)	Costs, Costs	minus line 15, Costs Not	for Participation on the Construction Budget	
	Not Allowable	Allowable for Participation	must be equal to the subtotal minus the Project	
	for	-	Income.	
	Participation			
Construction	Total Project	Provide error if not equal to	The Total Project Costs, Total Allowable	Map to appls_t.total_period_amt and
Budget (R&R)	Costs, Total	column A (Total Cost) minus	Costs on the Construction Budget must be	appl_periods_t.direct_cost_amt
	Allowable	column B (Costs Not Allowable	equal to the difference of columns A (Total	
	Costs	for Participation).	Cost) and B (Costs Not Allowable for	
			Participation)	
		Provide error if not equal to line 14	The Total Project Costs, Total Allowable	
		minus line 15, Total Allowable	Costs on the Construction Budget must be	
		Costs	equal to the subtotal minus the Project	
			Income.	
Construction	Federal			
Budget (R&R)	Funding			

Component	Field	Validation	Error Message	Notes & Tips
Construction	Federal			
Budget (R&R)	Assistance			
	Requested			

SBIR/STTR Information

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR	Program	One and only one choice may be	Please select one Program Type: SBIR or	
(NIH)	Type (SBIR,	made.	STTR on the SBIR/STTR Information page.	
	STTR, Both)	Choice must be consistent with the	You have selected a Program Type of	
		information stored for the	<program type=""> on the SBIR/STTR</program>	
		announcement: if the	component on the SBIR/STTR Information	
		announcement is indicated as	page. That is not the correct program type for	
		'SBIR', 'SBIR' must be selected;	this announcement. Please refer to the FOA	
		if announcement is indicated as	for the correct program type for this	
		'STTR', 'STTR' must be selected.	application.	
		'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	
SBIR/STTR	SBIR/STTR	One and anti- one chaice may be	Component.	
(NIH)	Type (Phase	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	
(IVIII)	I, Phase II,	made.	Information Component).	
	Fast-Track)		information component).	
SBIR/STTR	Question 1.	Required.		Store response in database.
(NIH)	Small	rtequired.		Store response in additions.
()	Business			
	Eligibility			
	(Y/N)			
SBIR/STTR	Question 2.	Required.		Store response in database.
(NIH)	Are			-
	Subcontracts			
	Included?			
	(Y/N)			
SBIR/STTR	Name of	Required entry if response to 'Are	If Question 2 on the SBIR/STTR Information	Store response in database.
(NIH)	Labs/	Subcontracts Included?' is 'Yes'.	Component indicates that subcontracts are	
	Agencies For		included, the name(s) of labs or agencies for	
	Subcontracts		subcontracts must be included.	
		Cannot be included if response to	If Question 2 on the SBIR/STTR Information	
		'Are Subcontracts Included?' is	Component indicates that subcontracts are not	
		'No'.	included, the name(s) of labs or agencies for	
			subcontracts cannot be included.	

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR (NIH)	Question 3. Located in HUBZone (Y/N)	Required.		Store response in database.
SBIR/STTR (NIH)	Question 4. Research to be Performed in US? (Y/N)	Required.		Store response in database.
SBIR/STTR (NIH)	Explanation of Foreign Performance	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.	
		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)	Required.		Store response in database.
SBIR/STTR (NIH)	Names of other Federal agencies for equivalent work	Required entry if answer to 'submittal of equivalent work to other agencies' question is 'yes'. Cannot be included if answer to 'submittal of equivalent work to other agencies' question is 'no'.		Store response in database.
SBIR/STTR (NIH)	Question 6. Disclosure Permission Statement (Y/N)	Required		Map response to appls_t, disclosure_permission_code
SBIR/STTR (NIH)	Commercializ ation Plan Attachment	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	
		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.	
		Limited to 15 pages.	The Commercialization Plan on the SBIR/STTR Information Component is limited to 15 pages	

Component	Field	Validation	Error Message	Notes & Tips
SBIR/STTR	Question 8.	Required for SBIR		Store response in database.
(NIH)	Receipt of			
	Phase II SBIR			
	Awards (Y/N)			
SBIR/STTR	Company			
(NIH)	Commercializ			
	ation History			
	Attachment			
SBIR/STTR	Question 9.	Required for SBIR		Store response in database.
(NIH)	SBIR PD/PI			
	Primary			
	Employment			
	(Y/N)			
SBIR/STTR	Question 10.	Required for STTR		Store response in database.
(NIH)	STTR PD/PI			
	Commitment			
	(Y/N)			
SBIR/STTR	Question 11.	Required for STTR		Store response in database.
(NIH)	STTR work			
	percentages			
	(Y/N)			

PHS 398 Cover Page Supplement

Component	Field	Validation	Error Message	Notes & Tips
Cover Page (NIH)	PD/PI Information (prefix, first, middle, last, suffix)	Read only, pulled from R&R		
Cover Page (NIH)	PD/PI New Investigator Question	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.	
Cover Page (NIH)	PD/PI Degrees	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. (Other Agency)	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 by="" commas="" degrees="" in="" of="" profile,="" separated="" the="">. 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.</list></degree>	
		Commons account, give a warning and copy the degrees from the application to the profile.	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.	

Component	Field	Validation	Error Message	Notes & Tips
·		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.	·
Cover Page (NIH)	Human Subjects Clinical Trial (Y/N)	If the application includes the 398 Cover Page Supplement component, an answer is required if the answer to 'Human Subjects Involved' is "Yes". 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 answered if the answer to 'Human Subjects Involved' on the Other Project information page is "Yes". 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".	
		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	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".	
	(Y/N)	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)	If either line>50 characters, truncate (Other Agency)		

Component	Field	Validation	Error Message	Notes & Tips
Cover Page (NIH)	Applicant Organization Contact City			
Cover Page (NIH)	Applicant Organization Contact County			
Cover Page (NIH)	Applicant Organization Contact State	Required if country is US (Other Agency)	The Applicant Organization State on the PHS 398 Cover Page Supplement must be supplied for US addresses.	
		If country is not US must be blank. (Other Agency)	The Applicant Organization State on the PHS 398 Cover Page Supplement should be blank for all countries other than the United States	
		Transform state name to 2-char abbreviation before validating and storing. If state name can't be transformed, give error. (Other Agency)	The Applicant Organization State on the PHS 398 Cover Page Supplement is not a valid state name.	
Cover Page (NIH)	Applicant Organization Contact	Required if country is Canada. (Other Agency)	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.
	Province	If country is not Canada must be blank. (Other Agency)	The Applicant Organization Province on the PHS 398 Cover Page Supplement should be blank for all countries other than Canada.	
		Transform province name to 2-char abbreviation before validating and storing. If province name can't be transformed, give error. (Other Agency)	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	Required if country is US. (Other Agency)	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.
		Must be 5 or 9 numeric digits if country is US. (Other Agency)	The Applicant Organization Zip Code on the PHS 398 Cover Page Supplement must be entered in 5-digit or 9-digit format.	
		For country other than US, if >9 characters, truncate (remove any dashes before truncating). (Other Agency)		

Component	Field	Validation	Error Message	Notes & Tips
Cover Page (NIH)	Applicant Organization Contact Country	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.</country>	
Cover Page (NIH)	HESC Involved (Y/N)	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.
		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	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.	
		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.	
		If specific stem cell line is included, must be a valid stem cell line in eRA database. Comparison should not be case-sensitive. (Other Agency)	Stem cell line <cell line="" number=""> on the PHS 398 Cover Page Supplement is not a valid stem cell line number.</cell>	
		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	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.	
		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)		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.	

Component	Field	Validation	Error Message	Notes & Tips
		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.	
		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.	
		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.	
		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).	
		Do not accept a modular budget for SBIR/STTR applications	Modular budgets may not be submitted for SBIR/STTR submissions.	
Modular Budget, Years 1-5 (NIH)	Start Date	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 (Other Agency)	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.	
		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.	
Modular Budget, Years 1-5 (NIH)	End Date	Budget period end date must be greater than budget period start date.	The modular budget year <budget year=""> end date must be later than the modular budget year <budget year=""> start date.</budget></budget>	
Modular Budget, Years 1-5 (NIH)	Direct Costs, Direct Cost Less	Must be <= 250K, must be a multiple of 25K for each budget year	The total direct costs for modular budget year dudget year> are greater than \$250K, or are not in increments of \$25K.	

Component	Field	Validation	Error Message	Notes & Tips
	Consortium,	For R15 submissions, provide	Direct cost requests are limited to \$150k a	-
	F&A	warning if this value for any	year for AREA grants (PHS 398 Modular	
		budget year is >= 150K.	Budget, Direct Costs, Direct Cost Less	
			Consortium, F&A). Applications that exceed	
			this limit may be delayed in the peer review	
			process or rejected.	
		For R03 submissions, provide	Direct cost requests are limited to \$50k a year	
		warning if this value for any	for this application (PHS 398 Modular	
		budget year is >50K (LV).	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.	
		For R21 submissions, provide	Direct cost requests are limited to \$200k a	
		warning if this value for any	year for this application (PHS 398 Modular	
		budget year is >200K (LV).	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.	
		For R34 submissions, provide	Direct cost requests are limited to \$225k a	
		warning if this value for any	year for this application (PHS 398 Modular	
		budget year is >225K (LV).	Budget, Direct Costs, Direct Cost Less	
		budget your is 223it (LT).	Consortium, F&A). Applications that exceed	
			this limit may be delayed in the peer review	
			process or rejected.	

Component	Field	Validation	Error Message	Notes & Tips
Modular	Direct Costs,	Must be less than 10,000,000,000	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. For NIH processing, the Consortium F&A	Grants.gov accepts up to 14 bytes
Budget, Years 1-5 (NIH)	Consortium, F&A		amount on the PHS 398 Modular Budget must be less than 10,000,000,000.	(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	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 dudget year> in the PHS 398 Modular Budget do not equal the sum of Direct Cost Less Consortium, F&A and Consortium, F&A	
		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	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	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	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.
Modular Budget, Years 1-5 (NIH)	Indirect Costs, Cognizant Agency			

Component	Field	Validation	Error Message	Notes & Tips
Modular	Indirect			
Budget, Years	Costs,			
1-5 (NIH)	Indirect Cost			
	Rate			
	Agreement Date			
Modular	Indirect	Must equal sum of Indirect Costs,	The Total Indirect Costs do not equal the sum	
Budget, Years	Costs,	Funds Requested 1-4 for the	of Funds Requested for budget year <budget< th=""><th></th></budget<>	
1-5 (NIH)	Total Indirect	corresponding budget year, if any	year> (PHS 398 Modular Budget).	
	Costs	Indirect Costs were entered.		
		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	Total Direct	Must be greater than 0 for first	For Modular Budget Year 1, Total Direct and	
Budget, Years	and Indirect	budget period.	Indirect Costs must be greater than zero (PHS	
1-5 (NIH)	Costs, Funds		398 Modular Budget)	
	Requested	Must be equal to the sum of Total	For Modular Budget Year <budget year=""></budget>	
		Direct Costs and Total Indirect	(PHS 398 Modular Budget), the Total Direct	
		Costs for the corresponding budget	and Indirect Costs must be equal to Total	
		period.	Direct Costs plus Total Indirect Costs	
			requested for that budget year.	4.71
		Must be less than 10,000,000,000	The Total Direct and Indirect Costs on the	Grants.gov accepts up to 15 bytes
			PHS 398 Modular Budget amount must be less than 10,000,000,000.	(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	Validation	Error Message	Notes & Tips
Modular	Total Direct	Must be equal to the sum of all	The Total Direct Cost less Consortium F&A	
Budget,	Cost less	Total Direct Cost less Consortium	for Entire Project Period in the PHS 398	
Cumulative	Consortium	F&A values for all budget years	Modular Budget must be equal to the sum of	
(NIH)	F&A for		Total Direct Cost Less Consortium F&A	
	Entire Project		values for all budget years.	
	Period	For R03 submissions, provide	Cumulative direct cost requests on the PHS	
		warning if this value is >100K	398 Modular Budget are limited to a total of	
		(LV).	\$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.	
		For R21 submissions, provide	Cumulative direct cost requests on the PHS	
		warning if this value is >275K	398 Modular Budget are limited to a total of	
		(LV).	\$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.	
		For R34 submissions, provide	Cumulative direct cost requests on the PHS	
		warning if this value is >450K	398 Modular Budget are limited to a total of	
		(LV).	\$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.	

Component	Field	Validation	Error Message	Notes & Tips
Modular	Total	Must be equal to the sum of all	The Total Consortium F&A for Entire Project	
Budget,	Consortium	Consortium F&A values for all	Period must be equal to the sum of	
Cumulative	F&A for	budget years	Consortium F&A values for all budget years	
(NIH)	Entire Project		(PHS 398 Modular Budget).	
	Period	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	Total Costs,	Must be equal to the sum of Total	The Total Direct Costs for the Entire Proposed	
Budget, Cumulative (NIH)	Total Direct Costs for Entire Project	Direct Costs for all budget years	Project Period must be equal to the sum of the Total Direct Costs for all budget years (PHS 398 Modular Budget).	
	Period	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,	Total Costs, Total Indirect	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	
Cumulative (NIH)	Costs for Entire Project Period		Total Indirect Costs for all budget years (PHS 398 Modular Budget).	
()		Must be less than 10,000,000,000	The Total Indirect Costs for Entire Project Period amount (PHS 398 Modular Budget) 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.
Modular	Total Costs,	Must be equal to the sum of all	The Total Direct and Indirect Costs for Entire	
Budget,	Total Direct	Total Direct and Indirect Costs	Project Period must be equal to the sum of all	
Cumulative	and Indirect	values for all budget years	Total Direct and Indirect Costs values for all	
(NIH)	Costs for		budget years (PHS 398 Modular Budget).	
	Entire Project Period	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	Provide a warning if this	In most cases, a Personnel Justification	
Budget,	Justifications,	attachment hasn't been included	attachment should be included if a Modular	
Cumulative	Personnel	with a modular budget.	Budget is being submitted.	
(NIH)	Justification			
Modular	Budget			
Budget,	Justifications,			
Cumulative	Consortium			
(NIH)	Justification			

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

Checklist

Component	Field	Validation	Error Message	Notes & Tips
Checklist (NIH)	Type of	Read only, pulled from R&R		
	Application	Allow a submission with no		
		Checklist component.		
Checklist (NIH)	Federal	Read only, pulled from R&R		
	Identifier			
Checklist (NIH)	Change of	Not accepted for revisions.	A revision may not be submitted if a Change	
	Investigator/		of PI has been indicated on the PHS 398	
	Change of		Checklist. Revisions must have the same PI as	
	Inst.; Change		the parent grant.	
	of PI			
Checklist (NIH)	Change of	Must be included if application is	The name of the former PI must be included if	
	Investigator/	for change of PI	there has been a Change of PI indicated on the	
	Change of		PHS 398 Checklist.	
	Inst.: Name of			
	former PI (Prefix, First			
	Name, Middle			
	Name, Last			
	Name, Suffix)			
Checklist (NIH)	Change of			
(1,111)	Investigator/			
	Change of			
	Inst.: change			
	of grantee			
	inst.			
Checklist (NIH)	Change of	If >40 characters, truncate. (Other		Grants.gov length is 120, our db length is
	Investigator/	Agency)		40. Consider long-term db change.
	Change of			
	Inst.: name of			
	former inst.			

Component	Field	Validation	Error Message	Notes & Tips
Checklist (NIH)	Inventions and Patents, Yes		_	
Checklist (NIH)	Inventions and Patents,			
Checklist (NIH)	Inventions and Patents, Previously	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.'	
	Reported (Yes or No)	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	Should only be completed if answer to Program Income Anticipated question was 'Y'. Provide error if provided for S10 application. The number of program income budget periods must be less than or equal to the number of budgets provided in the budget component.	If answer to Program Income Anticipated on the PHS 398 Checklist question is 'N', no program income detail may be entered. No program income may be included on the PHS 398 Checklist for S10 applications. 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.</y></x>	
Checklist (NIH)	Program Income, Anticipated Amount 1-5	Must be less than 10,000,000,000	The Program Income Anticipated Amount (PHS 398 Checklist) for budget period dudget 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			
Checklist (NIH)	Assurances/ Certification: Explanation			

PHS 398 Research Plan

Component	Field	Validation	Error Message	Notes & Tips
Research Plan	Type of	Read only, pulled from R&R		
(NIH)	Application	Allow applications to come in		
		without this component.		
Research Plan	Research	Required for resubmission for non-	An Introduction must be included for	
(NIH)	Plan	S10 applications.	resubmissions on the PHS 398 Research Plan.	
	Attachments:	Required for revisions.	An Introduction must be included for	
	Introduction		revisions on the PHS 398 Research Plan	
		Limited to 1 page for revisions.	The Introduction for a revision is limited to	
			one page on the PHS 398 Research Plan	
		Limited to 3 pages for non-	The Introduction is limited to three pages on	
		SBIR/STTR and non-R36	the PHS 398 Research Plan.	
		resubmissions (except as explicitly		
		listed below).		
		Introduction limited to 1 page for	The Introduction is limited to one page for this	
		Phase I SBIR/STTR, R03 (LV),	submission on the PHS 398 Research Plan.	
		R13, U13, R21 (LV), and R36	Warning message for 'opt out'	
		resubmissions.	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.	
		Introduction limited to 3 pages for	The Introduction (see PHS 398 Research Plan)	
		Phase II and Fast Track	is limited to three pages for this submission.	
		SBIR/STTR, R01, R18, U18, R25,		
		R33, R21/R33, and R34		
		resubmissions, as well as for R03		
		and R21 resubmissions that have		
		opted out.		
		Provide a warning if the	The Introduction (see PHS 398 Research Plan)	
		introduction is more than one page	should be no more than one page for this	
		on a G11 resubmission.	submission. The application will be processed	
			by the agency, but concerns may be raised	
			during review.	
Research Plan	Research	Provide warning if Research Plan	The Research Plan is limited to 25 pages. This	
(NIH)	Plan	Attachments 2-5 together are	may span 28 pages due to page breaks. If the	
	Attachments:	greater than 25 pages and less than	total space occupied by text does not exceed	
	Specific Aims	or equal to 28 pages (applies to all	25 pages then no action is needed.	

Component	Field	Validation	Error Message	Notes & Tips
		applications not specifically listed below, including Fast Track) (LV) for R01, R18, U18, R25, R33, R21/R33, and R34).	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	
		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)	and rejected in the review process. 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'	
		for R01, R18, U18, R25, R33, R21/R33, and R34) For SBIR/STTR Phase I and R21	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.	
		(LV), 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.	
		For SBIR/STTR Phase I and R21 (LV), 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. 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.	
		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.

Component	Field	Validation	Error Message	Notes & Tips
		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.
		For R36, X01, 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. If the total space occupied by text does not exceed 10 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.	
		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. If the total space occupied by text does not exceed 10 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.	
Research Plan (NIH)	Research Plan Attachments: Background and Significance			
Research Plan (NIH)	Research Plan Attachments: Preliminary Studies/ Progress Report	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).	For grant image, bookmark should be set based on whether this is a new (should show Preliminary Studies) or a resubmission, revision, or renewal (should show Progress Report)

	Validation	Error Message	Notes & Tips
Research	Required for all submissions	The Research Design and Methods section of	•
Plan	except S10.		
Attachments:		to the application.	
Research			
0			
Research	Required for non-S10 and non-	A Protection of Human Subjects attachment	
Plan	DP1 applications, if Human	must be included on the PHS 398 Research	
Attachments:	Subjects is 'yes'.	Plan page if the response to the Human	
Protection of		Subjects question on the Other Project	
		Information page is 'Yes'.	
	Exemption is not E4		
<u> </u>	Paguired for non \$10 applications		
	Exemption is not E4		
		Exemption Fullion to not 7.	
	Plan Attachments: Research Design and Methods Research Plan Attachments: Inclusion Enrollment Report Research Plan Attachments: Progress Report Publication List Research Plan Attachments:	Plan Attachments: Research Design and Methods Research Plan Attachments: Inclusion Enrollment Report Research Plan Attachments: Progress Report Publication List Research Plan Attachments: Protection of Human Subjects Research Plan Attachments: Inclusion of Women and Minorities Required for non-S10 applications if Human Subjects is true and Exemption is not E4 Exemption is not E4	Plan Attachments: Research Design and Methods Research Plan Attachments: Inclusion Enrollment Report Research Plan Attachments: Progress Report Publication List Research Plan Attachments: Progress Report Plan Attachments: Protection of Human Subjects is 'yes'. Plan page if the response to the Human Subjects Subjects Subjects Plan Plan Attachments: Protection of Human Plan Pl

Component	Field	Validation	Error Message	Notes & Tips
Research Plan (NIH)	Research Plan Attachments: Inclusion of Children	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: Data and Safety Monitoring Plan	For schema version 1.0, required for non-S10 applications if Human Subjects is true and Clinical Trial question is true.	The Data and Safety Monitoring Plan Attachment must be included on the PHS 398 Research Plan if the response to the Human Subjects question is 'Yes' and the response to the Clinical Trial question is 'Yes'	Will not be included in Research Plan component for versions later than 1.0
Research Plan (NIH)	Research Plan Attachments: Vertebrate Animals	Required for non-S10 and non- DP1 applications 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'	
Research Plan (NIH)	Research Plan Attachments: Select Agent Research			
Research Plan (NIH)	Research Plan Attachments: Multiple PI Leadership Plan	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 Arrangement s	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	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.	

Component	Field	Validation	Error Message	Notes & Tips
Research Plan	Research			
(NIH)	Plan			
	Attachments:			
	Resource			
	Sharing Plan			
Research Plan	Research	Limited to 10 appendixes	You have submitted more than 10 appendices	
(NIH)	Plan		on the PHS 398 Research Plan. There is a	
	Attachments:		limit of 10 appendix attachments allowed.	
	Appendix	At least one appendix is required	An R36 application must include at least one	
		for an R36 application (activity	Appendix attachment in the PHS 398	
		code on funding opportunity =	Research Plan. Transcripts should be included	
		'R36').	in this attachment.	
		Appendixes are not allowed for	Appendices may not be submitted for a Phase	
		SBIR or STTR Phase I	I SBIR or STTR application on the PHS 398	
		applications, unless the application	Research Plan.	
		is in response to an RFA.		
		Provide a warning if an appendix is	For most RFAs, the submission of appendices	
		submitted for an SBIR or STTR	with a Phase I SBIR or Phase I STTR is not	
		Phase I application that is in	permitted. Be sure that you have complied	
		response to an RFA.	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	Validation	Error Message	Notes & Tips
Cover Letter	Cover Letter	For an R13 application (activity	For NIH applications only, a cover letter	
(NIH)	attachment	code on funding opportunity =	should be attached in the PHS 398 Cover	
		'R13' or 'U13'), provide warning	Letter section indicating NIH institute	
		if the cover letter is not attached.	approval for a Conference Grant application.	
		For an application responding to a	This funding opportunity allows submission	Will need to add indicator to database to
		collaborative announcement,	of a collaborative group of applications. A	identify collaborative announcement,
		provide a warning if this	Cover Letter attachment must be included	defaulted to 'no'
		attachment is not 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.	