Navigating the Changes to the NIH Application Instructions

EFFECTIVE JANUARY 25, 2010

Why the Change? To Enhance NIH Peer Review

- Align the structure and content of the forms with review criteria
 - To focus the applicants and reviewers on the same elements
 - To help ensure a more efficient and transparent review process
- Identify and encourage new and early stage investigators
 - New Investigator checkbox removed from PHS 398 Face Page (paper) and PHS 398 Cover Page Supplement (electronic)
- Streamline time to award
- ► Fund the best science, by the best scientists, with the least amount of administrative burden

Overview of the Changes

- Research Plan
- Biographical Sketch
- Facilities and Other Resources

Research Plan Shorter Page Limits

<u>Current Page Limit</u>	<u>New Page Limit</u>
<25 (e.g R21, R03)	6
25 (e.g. R01)	12

New page limits are applicable to ALL New, Renewal, Resubmission, and Revision applications, unless otherwise stated in the Funding Opportunity Announcement (FOA).

New Structured Research Plan

- 1. Intro to Application (Resubmission/Revision only)
- 2. Specific Aims 1 page limit
- 3. Research Strategy R21=6 pages, R01=12 pages
 - a. Significance
 - b. Innovation
 - c. Approach
 - Prelim Studies for new applications
 - Progress Report for renewal/revisions

New Research Strategy Section

Structure of research narrative changed to match new review criteria

Current Application.	New Application			
Background and Significance	Research Strategy			
	a. Significance			
Research Design and Methods	b. Innovation			
Preliminary Studies/Progress Report	c. Approach			
	 Preliminary Studies for New Applications 			
	 Progress Report for Renewal/Revision 			

New Research Strategy Preparation

- ➤ A single PDF attachment for the Research Strategy (previously 3 separate files) increases applicant control over the look and feel of the application.
 - Simplified preparation for the applicant
 - Easier reading for reviewers
 - Electronic validation of page limits for Research
 Strategy in one file

New Order of Research Plan Section

2. Research Plan Attachments:				
Please attach applicable sections of the re	search plan, below.			
1. Introduction to Application		Add Attachment	Delete Attachment	View Attachment
(for RESUBMISSION or REVISION only)				
2. Specific Aims		Add Attachment	Delete Attachment	View Attachment
3. *Research Strategy		Add Attachment	Delete Attachment	View Attachment
4. Inclusion Enrollment Report		Add Attachment	Delete Attachment	View Attachment
5. Progress Report Publication List		Add Attachment	Delete Attachment	View Attachment
Human Subjects Sections				
6. Protection of Human Subjects		Add Attachment	Delete Attachment	View Attachment
7. Inclusion of Women and Minorities		Add Attachment	Delete Attachment	View Attachment
8. Targeted/Planned Enrollment Table		Add Attachment	Delete Attachment	View Attachment
9. Inclusion of Children		Add Attachment	Delete Attachment	View Attachment
Other Research Plan Sections				
10. Vertebrate Animals		Add Attachment	Delete Attachment	View Attachment
11. Select Agent Research		Add Attachment	Delete Attachment	View Attachment
12. Multiple PD/PI Leadership Plan		Add Attachment	Delete Attachment	View Attachment
13. Consortium/Contractual Arrangements	;	Add Attachment	Delete Attachment	View Attachment
14. Letters of Support		Add Attachment	Delete Attachment	View Attachment
15. Resource Sharing Plan(s)		Add Attachment	Delete Attachment	View Attachment

Appendix

Add Attachments

Remove Attachment

Research Strategy - Significance

- Explain importance of problem or critical barrier to progress in field.
- Explain how project will improve scientific knowledge, technical capability, clinical practice in one or more broad fields.
- Describe how concepts, methods, etc. that drive this field will be changed if aims achieved.

Research Strategy - Innovation

- Explain how application challenges and seeks to change current research or clinical practice paradigms.
- Describe novel concepts, approaches, methodologies, instrumentation or interventions to be developed or used.
- Explain refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation, or interventions.

Research Strategy - Approach

- Describe overall strategy, methodologies, and analyses proposed in specific aims.
- Discuss potential problems, alternative strategies, and benchmarks for success.
- If in early stages, describe strategy to establish feasibility, management of high risk aspects.
- ▶ Point out any hazardous procedures, materials.
- ► For new applications, include Preliminary Studies as part of Approach.
- ► For renewal/revision applications, provide a Progress Report as part of Approach.

Facilities & Other Resources Section

- Scientific Environment Describe how the scientific environment will contribute to the probability of success of the project, and unique features of the environment.
 - Discuss ways in which the proposed studies will benefit from unique features of the scientific environment or subject population or will employ useful collaborative arrangement.

Facilities & Other Resources Section

- ► Early Stage Investigators (ESIs) will require the institutional investment in the success of the investigator.
 - e.g. classes, travel, training, collegial support, administrative support, and financial support.
- Definition of Early Stage Investigator (ESI): Within 10 years of completing their terminal research degree or within ten years of completing their medical residency.

Facilities & Other Resources Section

► Biohazards or Other Potentially Dangerous Substances – describe any special facilities used for working with these substances.

Biographical Sketch Changes

- Section A A new Personal Statement will be incorporated.
 - This will change the parts formerly called A, B, and C, to Parts B, C, and D.
 - Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g. PD/PI, collaborator, mentor, etc.) in the project that is the subject of the application.

Therefore, Biosketch may have to be revised for EVERY proposal submission depending on your role on the project.

Biographical Sketch Changes

- Section B (formerly Section A)
 - Positions and Honors
- Section C (formerly Section B)
 - Publications (suggest limiting to 15 selected peerreviewed pubs).
 - Choose 15 based on recency, importance to field, and/or relevance to proposed research.
 - ▶ Be sure to include the PMCID # where applicable!
- Section D (formerly Section C)
 - Research Support Ongoing and Completed No change to instructions.

New Page Limitations unless the FAO specifies otherwise

SECTION OF APPLICATION Also refer to the relevant section of the application instructions and the FOA.	PAGE LIMITS *	
Introduction to Resubmission Application (3 pages for R25 on PHS398 Research Plan and 3 pages for K12, T and D Training	1 page	
Grants on PHS398 Training Program Plan) Introduction to Revision Application	1 page	
Specific Aims	1 page	
Research Strategy (Item 5.5.3 of Research Plan) For Activity Codes R03, R13, R21, R36, SC2, SC3	6 pages	
Research Strategy (Item 5.5.3 of Research Plan) For Activity Codes R01, R10, R15, R18, R21/R33, R24, R33, R34, DP3, G08, G11, G13, SC1, X01	12 pages	
Research Strategy (Item 5.5.3 of Research Plan) For all other Activity Codes, including S Activity Codes	Follow FOA instructions	
Research Education Program Plan For R25 Research Education Grant Applications	25 pages	
Biosketch (per person) (2 pages for DP1 and DP2 Activity Codes)	4 pages	
Career Development Award (K) Application Upload to PHS 398 Career Development Award Supplemental Form: Combined Candidate Information (Items 3-5: Candidate's Background, Career Goals and Objectives, Career Development/Training Activities During Award Period, and Training on the Responsible Conduct of Research) and Research Strategy (Item 11)	12 pages	
Institutional Research Training and Career Development Applicants, Including Ruth L. Kirschstein NRSA Application Research Training Program Plan: Combined Sections 8.7.2.2 – 8.7.2.5 (Background, Program Plan, Recruitment and Retention Plan to Enhance Diversity, and Plan for Instruction in the Responsible Conduct of Research)	25 pages	

Important Links

- ► NIH Notice, NOT-OD-149, regarding the restructured application forms and instructions.
- ▶ NIH website for **Enhancing Peer Review**.
- NIH FAQs on application enhancements, peer review, scoring, new investigators/ESIs, etc.
- ► New NIH Forms & Applications.
- ► New <u>NIH Biosketch SAMPLE</u>, with an example of the Personal Statement.
- ► NIH New and Early Stage Investigator Policies.
- ▶ DOM info on <u>NIH Public Access Policy</u>.

Steps for Success

- Read the new instructions thoroughly and carefully to ensure successful preparation and submission.
- Submit EARLY for the February and March deadline to allow enough time to make any required corrections prior to proposal submission.

DOM DRA 3-Day Policy

Reminder: All Grants.gov/Cayuse proposals are required to be submitted to the Department of Medicine's Departmental Research Associate (DOM DRA) at least 3 business days PRIOR to the federal agency deadline.