Developing Grant Proposals

Purdue grant writing strategies and assistance

Sally Bond

Assistant Director of Research Development Services

Proposal Coordination

Office of the Vice President for Research

and Partnerships



Purdue Research Development Services

Overview

Funding

Limited Submissions

Grant Writing Support

Site Visits

Events

Cost Sharing

Research Bridge Program

FAQs

Funding and Grant Writing

The goal of the EVPRP Research Development staff is to assist faculty in the development of research and education proposals. **EVPRP staff** provide a broad range of services and resources related to funding and grantsmanship. Below are some of the ways we can assist.



Funding Resources

The funding page provides information on internal, external, seed, and early investigator funding opportunities. Links to helpful funding search tools and e-mail alerts can also be found here.



Limited Submissions

Check here for details on internal competitions including deadlines, templates and submission quidelines.



Grant Writing Support

Research Development staff can provide assistance with both large and small proposals. This page explains our services and provides links to other useful proposal preparation resources.



Site Visits

Our staff can assist with the logistics and coordination of site visits allowing the research team to focus on their science and team. Follow this link to find out more about these services.



Events

The events page provides information on upcoming grantsmanship workshops and events including dates, times, and registration information. Presentations from previous events can also be accessed from this site.



Other Useful Links

Our Guide to the Grants Process at Purdue University and information on potential education and outreach partners are available here as well as links to other grantsmanship resources.

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Grant Writing Assistance and Resources

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Getting Started

Storyline Strategy

Request Grant Writing Help

Boilerplate Text

Data Management Plans

Biomedical Research Development

Self-Help Tools

Broader Impacts

Agency Resources

Grant Writing Support

Welcome to the Research Development Services grant writing support site. Here you can access resources for your proposal development as well as request hands-on help from our team of grant writers. If you have any questions, contact sbond@purdue.edu



















Quick Overview



Getting Started

Storyline Strategy

Request Grant Writing Help

Boilerplate Text

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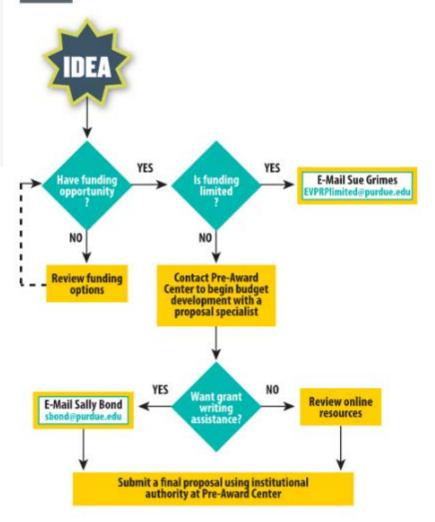
Agency Resources

A Visual Guide to the Grants Process at Purdue



Where are you in the process?

Click on each flowchart box to find more information.



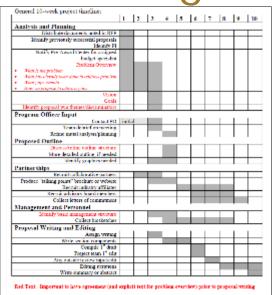


- Any award size
- Any agency
- External proposals only
- When? Sooner is better
- Concept storylines to shop your idea



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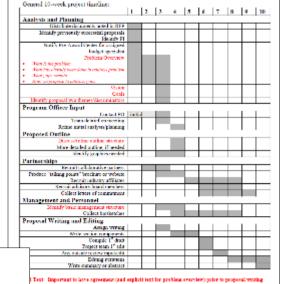
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Preparing for a Successful Meeting with Your Program Officer

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For NIH Use Specific Aims Page

Start with storyline:

- What is the human health problem? - What has been done already to address
- this problem?
- What is the gap that still exists?
- How do you propose to address this gap? Briefly mention why this team is
- ideal for the project. Aim X: Use a bold, concrete objective for each aim. Describe each aim in one to three sentences that convey why this work needs to be done as well as what and have.
- End with paragraph on expected outcomes.

For All Other Funding Agencies Use Concept Page

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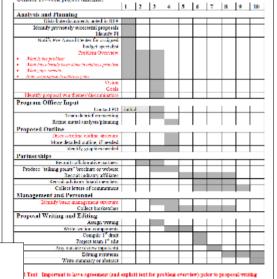
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Preparing for a Successful Meeting with Your Program Officer

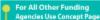
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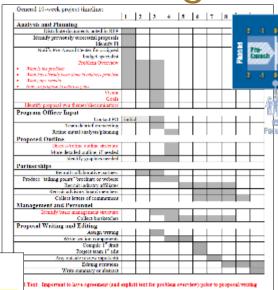
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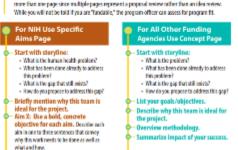
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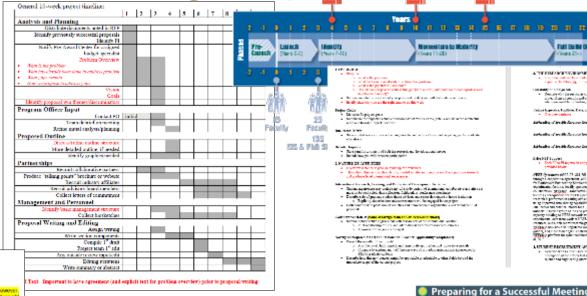
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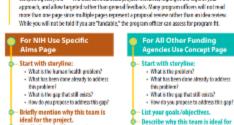
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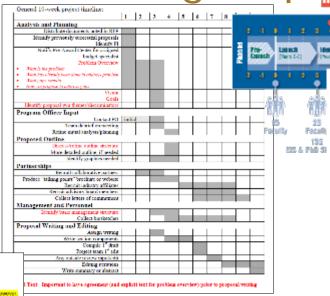
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CONTRACT RECOGNISHED AND RESIDENCE

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Preparing for a Successful Meeting with Your Program Officer

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- · Make contact early lat least several months in advance).
- . Do not make a "cold call." Email a one-page concept pager along with your agency blosketch and request a phone appointment to discuss.
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For All Other Funding Agencies Use Concept Page

Start with storyline:

- . What is the problem? - What has been done already to address this problem?
- What is the gap that still exists?
- . How do you propose to address this gap?
- List your goals /objectives.
- Describe why this team is ideal for the project.

Overview methodology.

Summarize impact of your success.

Analysis and Planning

General 10-week project (intelline:



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Pull Proposal Deadline(s) (see by 5 p.m. submitteds local time).

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PROGRAM SOLICITATION

REPLACES DOCUMENT(S):

NSF 19-564

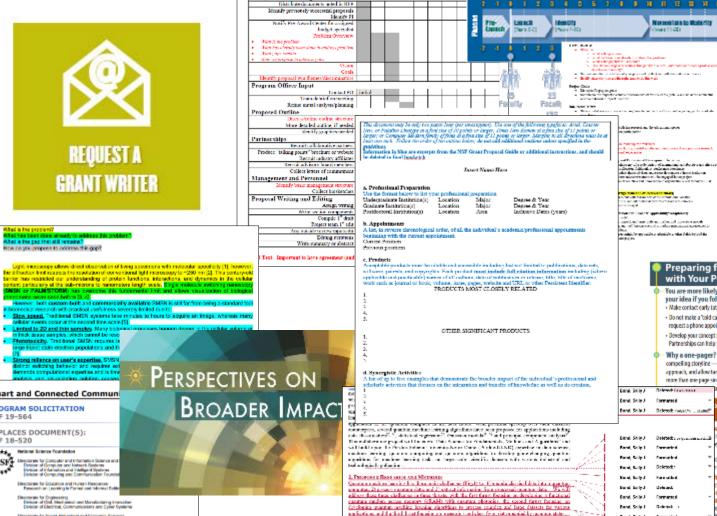
NSF 18-520

August 05, 2019

September 36, 2019

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What is the gap that still remains?
How do you propose to address this gap?



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Mornenturn to Materity

Years 11-329

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Agencies Use Concept Page

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Thrust J. Preparation: Initializing quantum states and encoding the classical data into a quantum

Proposal Preparation Process

Tailored and intentional plan

General	10-week	project	timeline:

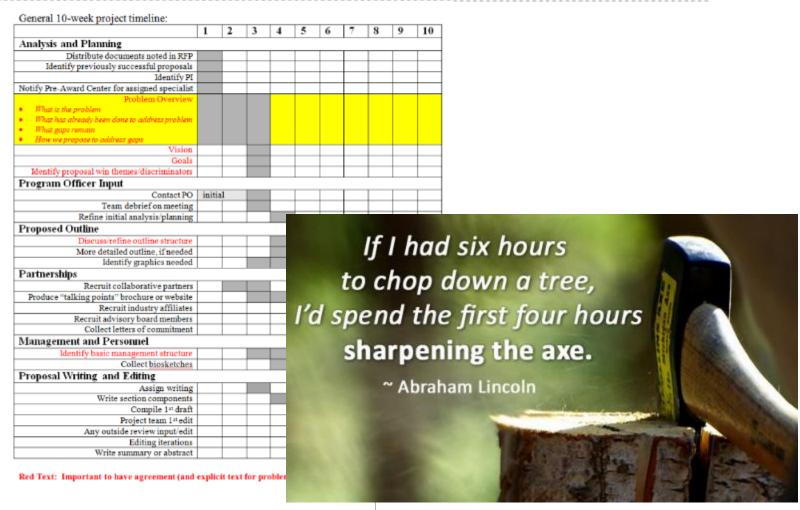
General 10-week project timeline:										
	1	2	3	4	5	6	7	8	9	10
Analysis and Planning										
Distribute documents noted in RFP										
Identify previously successful proposals										
Identify PI										
Notify Pre-Award Center for assigned										
budget specialist										
Problem Overview										
What is the problem										
What has already been done to address problem										
What gaps remain										
How we propose to address gaps				_						
Vision				_						
Goals				_						
Identify proposal win themes/discriminators										
Program Officer Input										
Contact PO	initia	1								
Team debrief on meeting										
Refine initial analysis/planning										
Proposed Outline										
Discuss/refine outline structure										
More detailed outline, if needed										
Identify graphics needed										
Partnerships										
Recruit collaborative partners										
Produce "talking points" brochure or website										
Recruit industry affiliates										
Recruit advisory board members										
Collect letters of commitment										
Management and Personnel	•	•		•						
Identify basic management structure										
Collect biosketches										
Proposal Writing and Editing										
Assign writing									1	
Write section components										
Compile 1 st draft										
Project team 1 st edit										
Any outside review input/edit										
Editing iterations										
Write summary or abstract										

Key Strategies

Strategies for the strongest proposal submission

- tell a compelling story
- respond to solicitation
- •answer "Why Purdue?"
- know your reviewer
- conduct internal review

Storyline first!



Gap analysis

- tell a compelling story
- respoi
- answe
- •know
- conduc

Good science is a story that...

- begins with a problem
- provides coherence in narrative
- hooks reviewer so weaknesses are not fatal
- sets "north star"

Four key questions

- tell a compelling story
- respo
- answe
- know
- condu

- What is the problem?
- What has been done already to address the problem?
 - What is the gap that remains?
- How do you propose to address this gap?

Funnel of logic flow

- tell a compelling story
- respo
- answe
- know
- condu

- What is the problem?
- What has been done already to address the problem?
- What is the gap that remains?
- How do you propose to address this gap?

Example narrative for NIH

Carolina Wählby of the Broad Institute

http://www.niaid.nih.gov/researc hfunding/grant/pages/appsample s.aspx

A Significance

The NIH is committed to translating basic biomedical research into clinical practice and thereby impacting global human health¹, and Francis Collins identifies high-throughput technology as one of five areas of focus for the NIH's research agenda². For many diseases, researchers have identified successful novel therapeutics or research probes by applying technical advances in automation to high-throughput screening (HTS) using either biochemical or cell-based assays ^{3–6}. Researchers are using genetic perturbations such as RNA interference or gene overexpression in cell-based HTS assays to identify genetic regulators of disease processes as potential drug targets ^{7–9}. However, the molecular mechanisms of many diseases that deeply impact human health worldwide are not well-understood and thus cannot yet be reduced to biochemical or cell-based assays.

Ideally, researchers could approach disease from a phenotypic direction, in addition to the traditional molecular approach, by searching for chemical or genetic regulators of disease processes in whole model organisms rather than isolated cells or proteins. Moving HTS towards more intact, physiological systems also improves the likelihood that the findings from such experiments accurately translate into the context of the human body (e.g., in terms of toxicity and bioavailability), simplifying the path to clinical trials and reducing the failure of potential therapeutics at later stages of testing. In fact, for some diseases, a whole organism screen may actually be necessary to break new therapeutic ground; in the search for novel therapeutics for infectious agents, for example, it is widely speculated that the traditional approach of screening for chemicals that directly kill bacteria *in vitro* has been largely exhausted ¹⁰. Our work recently identified six novel classes of chemicals that cure model organisms from infection by the important human pathogen *E. faecalis* through mechanisms distinct from directly killing the bacterium itself ¹¹. Anti-infectives with new mechanisms of action are urgently needed to combat widespread antibiotic resistance in pathogens.

Enabling HTS in whole organisms is therefore recognized as a high priority (NIH PAR-08-024) ^{12,13}, *(C. elegans* is a natural choice. Manually-analyzed RNAi and chemical screens are well-proven in this organism, with dozens completed ^{14–16}. Many existing assays can be adapted to HTS; instrumentation exists to handle and culture *C. elegans* in HTS-compatible multi-well. Its organ systems have high physiologic similarity and genetic conservation with humans ^{17,18}. *C. elegans* is particularly suited to assays involving visual phenotypes: physiologic abnormalities and fluorescent markers are easily observed because the worm is mostly transparent. The worms follow a stereotypic development pattern that yields identically-appearing adults ^{19,20}, such that deviations from wild-type are more readily apparent.

The bottleneck that remains for tackling important human health problems using *C. elegans* HTS is image, analysis (NIH PA-07-320)^{21,22}. It has been recently stated, "Currently, one of the biggest technical limitations for large-scale RNAi-based screens in *C. elegans* is the lack of efficient high-throughput methods to quantitate lethality, growth rates, and other morphological phenotypes"²³. Our proposal to develop image analysis algorithms to identify regulators of infection and metabolism in high-throughput *C. elegans* assays would bring image-based HTS to whole organisms, and have the following impact:

Storyline to Concept Paper



Preparing for a Successful Meeting with Your Program Officer

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For NIH Use Specific Aims Page

- Start with storyline:
 - · What is the human health problem?
 - What has been done already to address this problem?
 - What is the gap that still exists?
 - How do you propose to address this gap?
- Briefly mention why this team is ideal for the project.
- Aim X: Use a bold, concrete objective for each aim. Describe each aim in one to three sentences that convey why this work needs to be done as well as what and how.
- End with paragraph on expected outcomes.

For All Other Funding Agencies Use Concept Page

- Start with storyline:
 - · What is the problem?
 - What has been done already to address this problem?
 - What is the gap that still exists?
 - How do you propose to address this gap?
- List your goals/objectives.
- Describe why this team is ideal for the project.
- Overview methodology.
- Summarize impact of your success.



Office of the Executive Vice President for Research and Partnerships

23

One-page...taste of your entire grant in a single, bite-sized piece

It forces you to distill all aspects down to their essences and to find a way of piecing things together that is economical, coherent, logical, and compelling [...] is totally unforgiving, revealing problems in the clarity of your thinking and presentation, weaknesses in the logic of your research, vagueness in your methods, and failures in the all-important 'so what?' realm. Given the luxury of length, additional verbiage has a way of camouflaging weaknesses (at least from the writer but not so often from the reviewer).

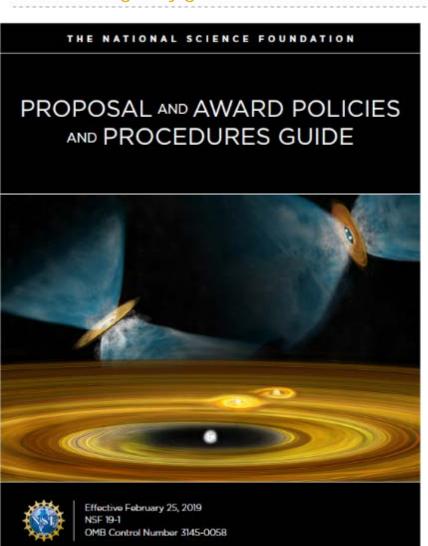
—Robert Levenson, UC-Berkeley

Key Strategies

Addressing common trouble spots

- tell a compelling story
- respond to solicitation
- answer
- follow all instructions!
- know you
 outline before writing
- conduct internal review

Know the agency guidelines as well as solicitation



Faculty Early Career Development Program (CAREER)

Includes the description of NSF Presidential Early Career Awards for Scientists and Engineers (PECASE)

PROGRAM SOLICITATION

NSF 17-537

REPLACES DOCUMENT(S):

NSF 15-555



National Science Foundation

Directorate for Biological Sciences

Directorate for Computer & Information Science & Engineering

Directorale for Education & Human Resources

Directorate for Engineering

Directorate for Geosciences

Directorate for Mathematical & Physical Sciences

Directorate for Social, Behavioral & Economic Sciences

Office of Integrative Activities

Office of International Science and Engineering

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):

July 19, 2017

Third Wednesday in July, Annually Thereafter

for BIO, CISE, EHR

July 20, 2017

Third Thursday in July, Annually Thereafter

for ENG

July 21, 2017

Tried Friday in July, Annually Thereafter

for GEO, MPS, SSE

IMPORTANT INFORMATION AND REVISION NOTES

Eligibility requirements have been revised to clarify the required early-career status of applicants.

Support for service personnel other than the PI that is commensurate with a limited collaborative role in the project is now allowed in the budget of the proposal or of a subrecipient.

Proposal due dates:

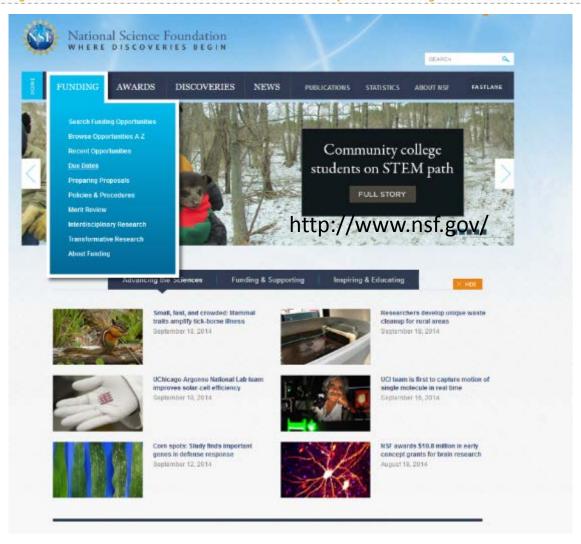
Directorate	2017 due dates	2018 due dates	2019 due dates
BIO, CISE, EHR	July 19, 2017	July 18, 2018	July 17, 2019
ENG	Ally 20, 2017	July 19, 2018	July 18, 2019
GEO, MPS, SBE	July 21, 3017	July 20, 2018	July 19, 2019

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (HSF 17-1), which is effective for proposals submitted, or due, on or after January 30, 2017.

Sleuth what was funded previously to identify trends

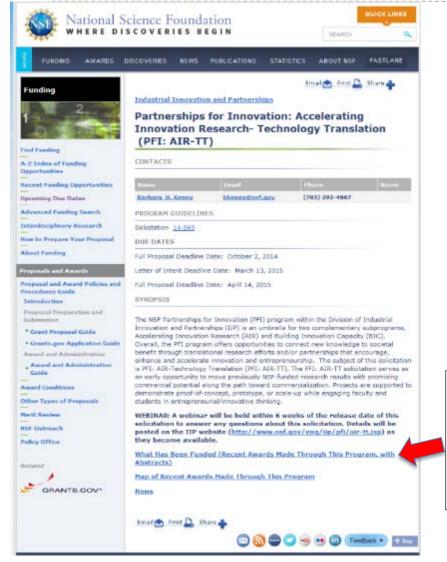
- What type of science and how does it compare to yours?
- What was team composition?
- What type of education integration?
- What type of institution?
- What type of budget?

Agency websites often show what was previously funded.



www.nsf.gov

Each program page has "what has been funded" and map of recent awards.

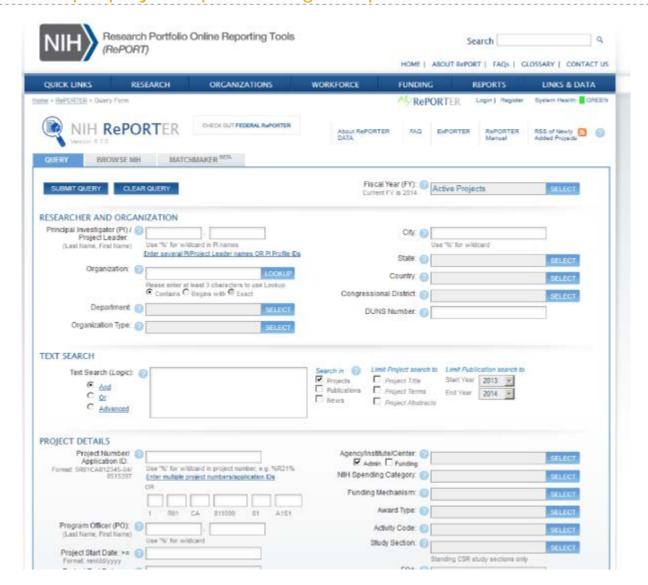


What Has Been Funded (Recent Awards Made Through This Program, with Abstracts)

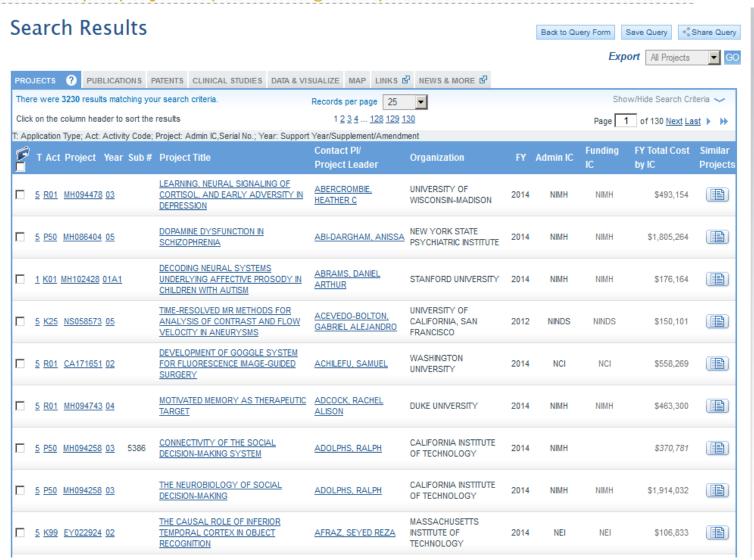
Map of Recent Awards Made Through This Program

News

NIH RePORTer http://projectreporter.nih.gov/reporter.cfm.



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Outline before you write. Be consistent with formatting.

Example of NSF-style proposal outline

1. RATIONALE [2.5 pages]

- Storyline
 - o What is the problem?
 - o What has been done already?
 - o What is the gap that still remains?
 - o What do you propose to do to address this gap?

Goals and Objectives

· List goals and objectives (per goal)

Team Partnership

- Team expertise
- · Targeted teacher and/or community college faculty participants
- Institutional commitment

Broader Impacts

- · curriculum accessed by underrepresented students through targeted teacher recruitment
- · community-based research activities
- · integrating research activities into computing-related courses in local high schools
- · role models from HCBU partner on HUBzero webinars
- presentation to parent-teacher organizations to include assessment results from DLRCcollected metrics
- · presentations at both technology education conferences as well as K-12 STEM learning

2. NATURE OF TEACHER ACTIVITIES [3.5 pages]

- · Need clearly articulated research projects and activities
 - Map to goals/objectives
- · Teachers must be involved in research project for at least 6 weeks
- Must have orientation session at beginning of the program for the teachers to acquaint them with laboratory methods, safety procedures, analytical methods, stc
- · Address approach to research training being undertaken

Research Project

· Include overview statement of spectrum of research projects

Project 1

- · Provide detailed descriptions of examples of research projects
 - Include who is doing what role
- Present plans that will ensure the development of RET participant-faculty interaction and communication
- How will you facilitate development of collegial relationships and interactions as teachers work closely in teams with university faculty and students?

Project 2

- · Provide detailed descriptions of examples of research projects
- Include who is doing what role
 Present plans that will ensure the development of RET participant-faculty interaction and
- How will you facilitate development of collegial relationships and interactions as teachers work closely in teams with university faculty and students?

Project Timetable

- · Need Gantt-style chart such as this.
- Overview sentence

communication

Program Initiatives	Year one	Year Two	Year Three	Year Four	Year Five
CICAWEST Administration			•	•	
Advisory Board Meeting					
D&I Team and COD meeting					
Mentoring Academy			•	•	
Training of coaches/chairs					
Mentoring pairs					
Departmental Transformation			•	•	
Diversity Forums					
Chairs/Dept Heads @ PU					
All Three Institutions					
Transformational Team Visits					
NCWIT Visiting Committees					
Promotion and Tenure Review					
Building Networks			•		
Summit					
Invited Lectures					
Evaluation and Assessment			•		
STEM Climate Assessment					
Space/Resource Inventory					
Coaching Measures					
Mentor/Mentee percn/self-eff/prod					
Attitudinal Surveys					
Deans and Heads					
Faculty					
Network Analysis					
External Project Analysis					
Dissemination					
Website					
CIC Women in Academia					
Summit Attendees Mailings					
Publications					
National Presentations					

3. RESEARCH ENVIRONMENT [2.5 pages]

- Describe the experience and record of involvement with K-12/community college education and research of the PI
- · Describe faculty who may serve as research mentors. Consider table such as:

Mentor Name	Dept/School	Expertise

- Describe institution
 - Include emphasis on cross-disciplinary partnership and past record of success in cross-disciplinary collaborations

Key Strategies

Addressing common trouble spots

- tell a compelling story
- respond to solicitation
- •answer "Why Purdue?"
- know yd
- conduct
- win differentiators of expertise, facilities, prior work, campus environment

Key Strategies

Addressing common trouble spots

- •tell a compelli
- •respond to sol
- •answer "Why

- writing for expert and non-expert
- busy, rushed
- did not choose to read your proposal
- know your reviewer
- conduct internal review

Know Your Reviewer

Be kind...you are not writing for yourself.

- use formatting as a roadmap
- be generous with white space
- •fix grammar and proof proposal
- write clearly...shorter sentences

Know Your Reviewer

Parallel formatting provides a roadmap to help your reviewer

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Mentoring Academy					
Training of coaches/chairs					
Mentoring pairs					
Departmental Transformation					
Diversity Forums					
Chairs/Dept Heads @ PU					
All Three Institutions					
Transformational Team Visits					
NCWIT Visiting Committees					
Promotion and Tenure Review					
Building Networks			•		
Summit					
Invited Lectures					
Evaluation and Assessment				•	
STEM Climate Assessment					
Space/Resource Inventory					
Coaching Measures					
Mentor/Mentee percp/self-eff/prod					
Attitudinal Surveys					
Deans and Heads					
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Parallel formatting provides a roadmap to help your reviewer

Research Strategy (usually 12 pages) Option 2 with common preliminary studies

- A. Significance
- B. Innovation
- C. Approach
 - Overview sentence on the team and the approach

Preliminary Studies (for all the aims together)

· For all the aims together

Title of Specific Aim #1 (verbatim from your specific aims section)

o Introductory paragraph

Research Design

Expected Outcomes

Potential Problems and Alternative Strategies

Title of Specific Aim #2 (verbatim from your specific aims section)

Introductory paragraph

Research Design

Expected Outcomes

Potential Problems and Alternative Strategies

Title of Specific Aim #3 (verbatim from your specific aims section)

Introductory paragraph

Research Design

Expected Outcomes

Potential Problems and Alternative Strategies

Timetable

· Use Gantt chart

Future Directions (optional)

Avoid dense text by adding white space

Format 1

The NEES collaboration created a total of 15 advanced equipment sites for experimental work dedicated to the reduction of the earthquake threat (Figure 4). The current experimental reach of the equipment ranges from the marine to the geotechnical to the structural environments and can address almost any technical question that may arise on issues related to the safety of the built-environment in earthquakes. Development of this massive array of experimental capabilities demanded an intense and sustained effort. In retrospect, it would appear that the leaders of research groups involved in the creation of the 15 sites were totally absorbed, as they should have been, in the proper development of a magnificent experimental capability across the U.S. Unfortunately, there were three unplanned and unintended results: 1) a negative perception among a portion of the research community that equipment access was not equitable; 2) most, if not all, of there search work initiated has not yet been of a quality to transform the engineering community culture; and 3) the information technology infrastructure, which had initially inspired the NEES concept of a network of interconnected laboratories, has yet to reach its potential. The metaphor of a powerful fleet of battleships at anchor is not irrelevant to the current status. Our goal is to get the fleet moving in harmony.

Rapid advance in engineering knowledge and capability requires at least four ingredients: 1) a driving need; 2) a large community of well-educated professionals; 3) financial support, and 4) competing centers of research and development. As emphasized by the tragic disaster in Wenchuan, PRC, in May 2008, there continues to be a critical need for advances in earthquake-loss reduction. Considering the seismic histories of population centers such as San Francisco, Los Angeles, Katmandu, and Istanbul, there is no basis for expecting the earthquake threat to abate in the foreseeable future. In large measure because of the encouragement of the National Science Foundation since the early 1970's, the U.S. is blessed with an impressively large community of professionals well trained in earthquake engineering and related sciences. The first two ingredients are very much in place. As long as the U.S. confinues to have a strong economic profile and maintains its proven ability to plan beyond the immediate future, financial support for research and development in earthquake issues will continue. Our mission, then, is for NEES to take the lead in providing the competing centers of research and development to achieve catalysis of the existing essential ingredients as described below. The seminal idea for the NEES network was the creation of an experimental-research infrastructure with many visions and capabilities at different research centers connected with a single purpose through the opportunity provided by information technology. The objective of creating a successful equipment infrastructure has been achieved. A driving challenge now is to resuscitate what was intended to be the cortex of the system: the information technology (IT) that can enable the required catalysis of ideas.

Our overall strategy is designed to: 1) inspire the NEES researcher to pursue a more ambitious research agenda; 2) entice the rest of the research community to compete for the opportunity to benefit from the sites; 3) encourage academic researchers to interact with the professional engineers in order to accelerate the implementation of new knowledge in practice; and 4) develop a NEES community that will include all individuals, institutes, agencies, corporations, professional societies, and non-governmental organizations (NGO) interested in protecting society from the harmful consequences of earthquakes.

A brief look at the history of civilizations will reveal that the nuclear ingredient in their development has been the "agora," or the market Using the opportunities provided by information technology, we plan to develop the intellectual equivalent of the agora in order to get the "fleet at anchor" moving at an ever-increasing pace. We will employ operational excellence, innovative computational tools, outreach that advances knowledge, and an environment for the catalysis of ideas. Among the qualitative and quantitative performance metrics for measuring our success and developing a compelling basis for continued operation are: 1) the satisfaction of users (including both physical and analytical researchers); NEEShub, users; and education, outreach and training targets; 2) a greater diversification of users, research sponsors, operations sponsors, outreach community, and the NEEShub community, 3) increased research productivity in earthquake engineering, including the increased use of NEES equipment by remote users; 4) greater impact on codes, technical committees, professional societies, and research directions; and, eventually, 5) reduced losses from earthquakes.

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Sloppy writing = sloppy science



Mechanics matter. Sloppy writing = sloppy science

Elemental mapping of animal tissues has been investigated, and results have been documented.

changed to:

We investigated elemental mapping of animal tissues and documented results.

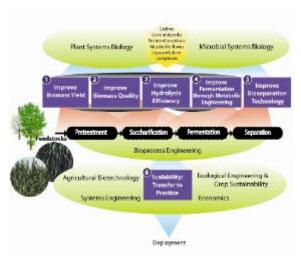
Be concise. Less is better.

There are a growing number of scientists who believe the system is capable of addressing user demands. (17 words)

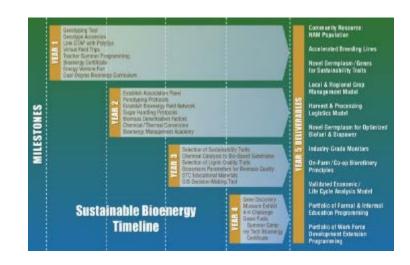
A growing number of scientists believe the system can address user demands.

(12 words)

Use high-quality, easy-to-read graphics for conceptual and organizational info









Use visuals to summarize narrative when possible.

Program Initiatives	Year 1		Year 2		Year 3		Year 4		Year 5	
Indiana administration										
Membership approved by Executive Council				•		•		•		
for working committees		•	1 :	:	1 :	•	1 :	÷	1 :	
Partner retreat		•		•		•		•		•
Create I-hub				:	T:	:		-:-		÷
Create Passport tracking			1 :	:	1 :	:	:	:		:
External Advisory Board meetings		:	1	:				:		:
Annual Alliance-wide conference				:	:		:			
Goal 1: Alliance-wide practices	-	-	-	_	-	-	-	-	-	-
Campus director monthly centralized training		•	· ·	•		•		-	T :	-
Augmented training sets		\equiv		•						•
Faculty/students training on I-hub		•						:		:
Cross-Alliance recruiting, including veterans		:		:				:		:
Goal 2: Effective community college partner	rship fac	ilitatir	g transfe	r to f	our-vear S	STEM	progra	ms		
Co-mentored domestic research experience at	T :	•	ĭ :		T :	•	· ·	•		
partner campuses	:	:		:		:		•	:	•
Co-mentored international research		•		:		•		-		-
experience	1 :			:				:		
Industry guest speakers								:		
Cross-Alliance teaching symposia and		:	1 :	:		:	:	:		:
workshops with community college faculty	1 1	:	1 :	:		:	:	:	1 1	:
Goal 3: Aligning experiences with Tinto's pr	inciples	of iter	ation							
Map activities and identify gaps		•						•		
Pair scholars with mentors			-		•			-		
Create individualized portfolios				•				-	•	•
Map incentives to Passport Badges		•	1 :	:	1 :			:	1 :	
Cross-Alliance international research cohort		-:-	T	$\overline{\cdot}$:		-:-		$\overline{}$
Disseminate model-based best practices	1	:	:	:		:	:	:		:
Goal 4: Research longitudinal model of Scho	olar deve	lopme	nt							
Compile a list of Scholar attributes		•			T :			•	T :	
Test and validate Scholar attributes		\equiv		•		•		-:-		:
Collect Scholar data		:		:		•				:
Analyze Scholar data and portfolios		:								
Conduct interviews with Scholars	:			:	1 :		:	:		:
Evaluation and Assessment										
Formative site visits								-		•
Formative focus groups/interviews										•
Formative web-based surveys	1 :							•		•
Formative analysis and reporting	T :	\equiv					:		:	
Summative data plan development				•		•		-:		
Summative quantitative data gathering	T :	-		:		:	:	:	:	:
Summative analysis and final reporting		$\overline{}$: -		:		:		

Key Strategies

Addressing common trouble spots

- tell a compelling story
- respond to solicitation

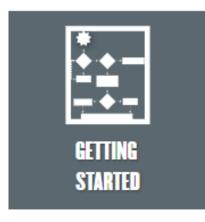
- conduct internal review

Internal Review

New eyes on your draft before submission

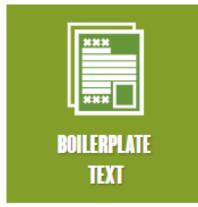
	1	2	3	4	5	6	7	8	9	10
Analysis and Planning			•							
Distribute documents noted in RFP					T					
Identify previously successful proposals										
Identify PI										
Notify Pre-Award Center for assigned specialist										
Problem Overview										
What is the problem										
 What has already been done to address problem 									1	
What gaps remain										
How we propose to address gaps			_		_	_	-		+	-
Vision	_	-		-	+	+	\vdash		+	\vdash
Goals				-	-	-	-		-	-
Identify proposal win themes/discriminators				_						
Program Officer Input										
Contact PO	initia	1		_						
Team debrief on meeting				_						
Refine initial analysis/planning										
Proposed Outline										
Discuss/refine outline structure										
More detailed outline, if needed										
Identify graphics needed										
Partnerships										
Recruit collaborative partners									Т	
Produce "talking points" brochure or website										-
Recruit industry affiliates			$\overline{}$	-						-
Recruit advisory board members					$\overline{}$					
Collect letters of commitment										
Management and Personnel			•		•					
Identify basic management structure						Т		Т	Т	
Collect biosketches			$\overline{}$							-
Proposal Writing and Editing										
Assign writing					_					
Write section components										+
Compile 1st draft								+	+	+
Project team 1st edit				+	+			+	+	+
Any outside review input/edit										
Editing iterations										
Write summary or abstract	_	_	_	_	+	+	_			

Internal Review



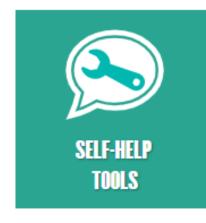










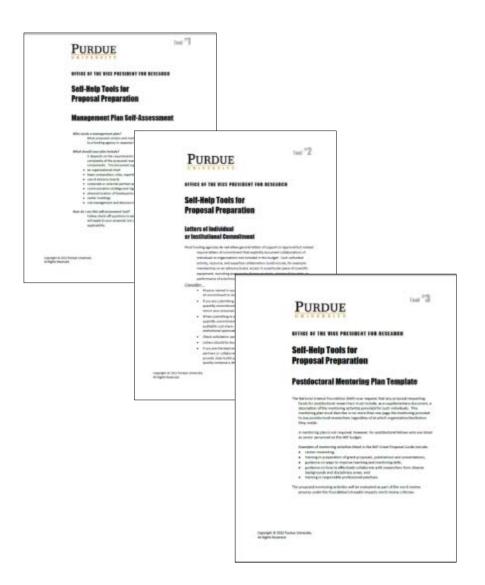






Templates and Step-by-Step Guidance





Drop-in Text for Resource/Facilities

Policies and Help Documentation

Libraries and School of Information Studies

Browse

Collections Disciplines Authors







The Office of the Executive Vice President for Research and Partnerships (EVPRP) supports faculty in all aspects of research, including funding access, proposal development, research integrity, corporate and foundation relations, and interdisciplinary infrastructure. Suresh Garimella, Ph.D. is the current executive vice president for research and partnerships.

Follow

Browse the Office of Research and Partnerships Collections:

University General Facility Boilerplate Descriptions

University Research Core Facility Boilerplate Descriptions



Data Management Plans



DMP Development Resources

- Purdue Libraries Data Management Guidelines
- Purdue-Affiliated dmptool.org for data management plans templates, sample documents, and funder guidance.
- Purdue's Research Repository (PURR) contains step-by-step instructions for completing the data management plan
 requirements and citable boilerplate text that can be inserted into your DMP.
- . Data Storage Options at Purdue explains different data storage options available to the Purdue community

Sample DMPs from funded Purdue projects

NSF Division of Engineering Education and Centers (CISTAR 2017)

NASA Space Technologies Research Institutes (Dyke 2019)

NSF Division of Behavorial and Cognitive Sciences (Ma 2017)

NSF Division of Research on Learning (Ryu 2018)

Questions?

