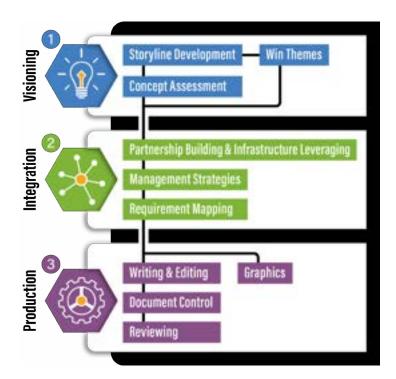
# Proposal Strategies and Resources

Sally Bond
Director, Proposal Strategy and Development
Office of Research



# **Strategic Process and 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



## **Getting Started**

Overview

Getting Started

Storyline Strategy

Request Grant Writing Help

Boilerplate Text

Data Management Plans

Biomedical Research Development

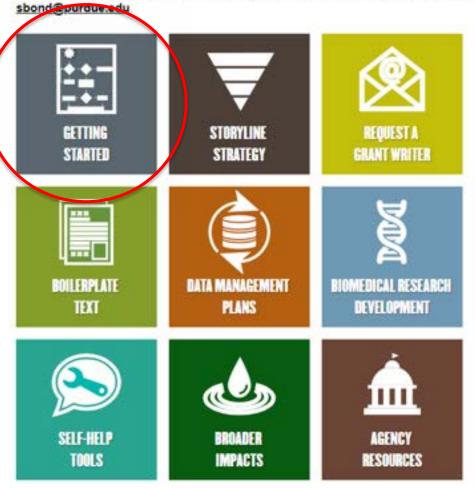
Self-Help Tools

Broader Impacts

Agency Resources

### **Grant Writing Support**

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# **Getting Starting: Quick Overview**



Getting Started

Storyline Strategy

Request Grant Writing Help

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Data Management Plans

Biomedical Research Development

Self-Help Tools

Broader Impacts

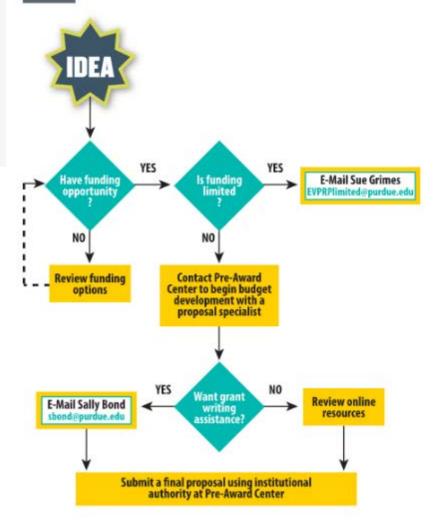
Agency Resources

#### A Visual Guide to the Grants Process at Purdue



#### Where are you in the process?

Click on each flowchart box to find more information.



# **Ask for Grant Writing Help**



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

# **Proposal Preparation Process**

### **Tailored and intentional plan**

	1	2	3	4	5	6	7	8	9	10
Analysis and Planning										
Distribute documents noted in RFP										$\overline{}$
Identify previously successful proposals		_						-		-
Identify PI			$\overline{}$				$\overline{}$	$\overline{}$		$\overline{}$
Notify Pre-Award Center for assigned budget specialist			П		Т			Т		Г
Problem Overview  What is the problem  What has already been done to address problem  What gaps remain  How we propose to address gaps										
Vision	-	-	-	-	+	-	+	+	-	+
Geals	-	-	_	-	+	+	+-	+	-	-
Identify proposal win themes/discriminators		_		-	-	-		_	_	$\perp$
Program Officer Input			_	44	-		_	_	1	_
Contact PO	initi	al			-	-	-	-	-	-
Team debrief on meeting		-			-		-	_	-	-
Refine initial analysis/planning		_	-			_	_	_	_	$\perp$
Proposed Outline										
Discuss/refine outline structure										
More detailed outline, if needed										
Identify graphics needed										
Partnerships										
Recruit collaborative partners			100							
Produce "talking points" brochure or website										
Recruit industry affiliates										
Recruit advisory board members										
Collect letters of commitment									1	
Management and Personnel										
Identify basic management structure			15		10	100				
Collect biosketches										
Proposal Writing and Editing					N.					
Assign writing		$\overline{}$						$\overline{}$		$\overline{}$
Write section components				100						
Compile 1 <sup>st</sup> draft										
Project team 1" edit						1000			10.3	
Any outside review input/edit										
Editing iterations									10 1	
Write summary or abstract										

# **Key Strategies**

### Strategies for the strongest proposal submission



Tell a compelling story



• Answer "Why you?"



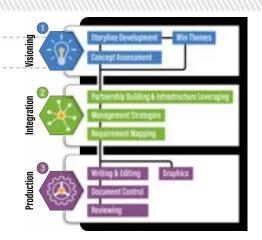
• Be responsive to agency



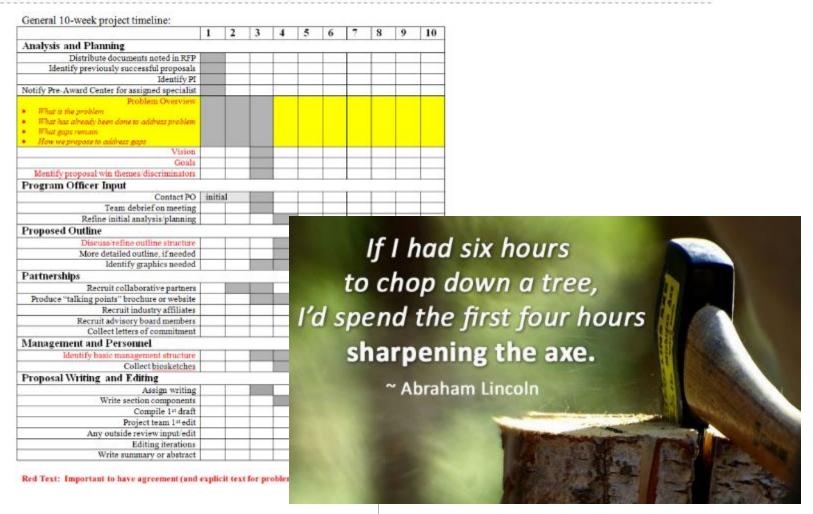
Know what reviewers need



Plan for internal review



### **Storyline first!**





Strategies for the strongest proposal submission



Tell a compelling story



• Answer "Why you?"



Be re



Know



Plan for

- Identify a problem beyond "it has not been done yet"
- Answer the "so what?"
- Think short elevator pitch
- Write for intelligent lay person
- Hook reviewers at outset



Strategies for the strongest proposal submission



Tell a compelling story



• Answer "Why you?"



· Be re



Know



Plan for

- 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?



Strategies for the strongest proposal submission



Tell a compelling story



· Answer "Why you?"



· Be re



Know



Plan for

- What is the problem?
- What has to address
- What is the §
- How do you pi address this ga

t remains?

ready

bse to

I. Significance and Rationale

Two dimensional (2D) methods such as 2D infrared (2DIR) and 2D electronic spectroscopy (2DES) offer unprecedented insight into the structure and dynamics of complex biomolecules, with applications ranging from photosynthetic energy transfer to peptide structural analysis. Unfortunately, while technical advances have greatly simplified the collection of 2D data, its interpretation remains difficult and often controversial due to the nonlinearity of the process and the complexity of biomolecular dynamics. This interpretation problem forms a major roadblock against what might otherwise be the most critical applications of 2D methods—from identifying amyloidogenic disease mechanisms to understanding the delicate interplay between vibrational and excitonic interactions in biological light harvesting. To overcome this challenge, an impressive array of quantum dynamics methods has been developed to simulate biomolecular 2D spectra and have contributed greatly to the interpretation of 2D <mark>data.</mark> Perhaps surprisingly, however, no fully classical framework for 2D spectroscopy h**as been** thoroughly developed. Indeed, even existing semiclassical methods rely on the quantum response formalism and introduce classical system dynamics only between light-matter interactions. While fully classical numerical methods have shown promise for describing 2DIR spectra, the underlying classical theory remains complex, numerically intensive, and difficult to interpret. Similarly, fully classical descriptions of 2DES remain almost entirely unexplored despite well-developed classical models for linear electronic spectroscopy and encouraging semiclassical beginnings.

This gap in the knowledge base introduces both fundamental and practical challenges in interpreting 2D data. Fundamentally, without a classical "baseline," it is unclear which features in 2D spectra are exclusively quantum-mechanical – this despite a decades-long discussion of quantum coherence in biomolecular 2D spectra. Such an exclusive reliance on quantum theory significantly limits the accessibility of 2D spectroscopy to a broad scientific audience, particularly in the structural biology community where 2DIR can potentially be most useful.

To address these limitations, I propose to develop a robust classical theory for 2D spectroscopy along with a systematic framework for quantum corrections and a suite of experimentally benchmarked computational methods for applying the theory to protein 2DIR spectroscopy. This "classical first" approach is a natural strategy for biomolecular systems whose functional dynamics typically operate in a quasi-classical limit. My key objectives are to:

- Develop a robust, physically transparent theory of classical 2DIR and 2DES by building on recent numerical demonstrations of molecular dynamics (MD)-based 2DIR and accurate classical electronic-oscillator models for exciton dynamics in pigment-protein complexes
- Establish a systematic framework for adding quantum corrections to classical 2D spectra,
- Apply this framework to develop fast, accurate protein 2DIR simulation methods for structural biology applications, using experimentally trained potential energy models, and
- Develop an experimental approach to 2D acoustic spectroscopy (2DAS) as a test for classical 2D theories and for use in science outreach and nonlinear spectroscopy education.

Mike Reppert Department of Chemistry

### **Storyline to Concept Paper**



### Preparing for a Successful Meeting with Your Program Officer

- You are more likely to receive valuable insight into the funding potential of your idea if you follow these steps:
  - · Make contact early (at least several months in advance).
  - Do not make a "cold call." Email a one-page concept paper along with your agency biosketch and request a phone appointment to discuss.
  - Develop your concept paper using the format below. Grant writers in the Office of Research and Partnerships can help you develop this text. Email sbond@purdue.edu to request help.
- Why a one-pager? Distilling your ideas into a brief summary one that starts with a compelling storyline will best communicate project relevance, highlight the logic of your approach, and allow targeted rather than general feedback. Many program officers will not read more than one page since multiple pages represent a proposal review rather than an idea review. While you will not be told if you are "fundable," the program officer can assess for program fit.

#### 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



### Strategies for the strongest proposal submission



Tell a compelling story



• Answer "Why you?"



Be responsive to agency



Know w



Plan for

- Identify win differentiators of expertise, facilities, prior work, campus environment, location
- Build team strategically not out of convenience
- Think people and institutions



### Requirement mapping



• Tell a compelling story



• Answer "Why you?"



• Be responsive to agency



Know wł

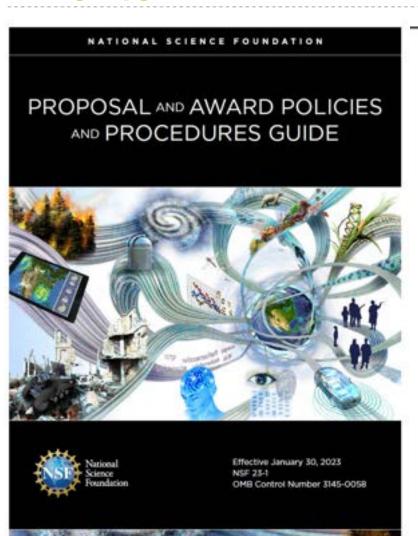


Plan for ir

- Follow all instructions
- Always outline before writing



### **Know 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

#### PROGRAM SOLICITATION

NSF 22-586

#### REPLACES DOCUMENT(S):

NSF 20-525



National Science Foundation

Directorate for Biological Sciences

Directorals for Computer and Information Science and Engineering

Conclude to 975M Schools

Directories for Engineering

Disconnels for Geoscierons

Directorate for Madrematical and Physical Sciences

Directions for Docks, Dehavoral and Economic Sciences

Office of triagrative Activities

Office of International Science and Engineering

Directionale for Technology, Innovative and Platnerships

Full Proposal Deadline(s) (five by 5 p.m. submitters local time).

July 27, 2022

Fourth Wednesday in July, Annually Theresfor

#### IMPORTANT INFORMATION AND REVISION NOTES

Despite changed in the 4<sup>th</sup> Warmanday of July at Scilipse level time. Changed from the 4<sup>th</sup> Marries of July

New sphoral single copy document for PECASE aligitally asserted

Conflueton language extent for departmental shar letter supprementary document.

#### Other Important Information

- Clarification regarding the recent processing adjustment present place in the companion of the program is consistent to the program of the program of the processing the recent deadling applies to all CARTEST automaters, regardless of Telephone on the CARTEST approach commander review.

  Adding placeholds on the CARTEST proposed commander review.

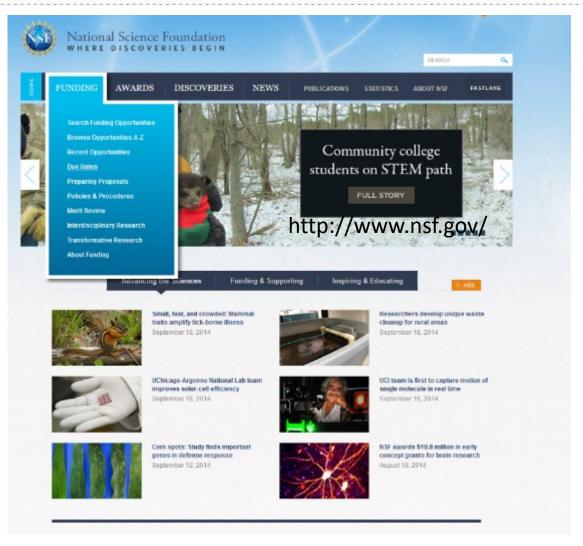
eting and registrig proposal proposation and automosor sepatation from Fault are to Research give in part of the origining till? Information technology critisation afform, as alsocology in reportent funitor his, 147°, in support of these afform, visually proposeds submitted in response to this program. solicitation must be presented and solicitated ins Research give or its Grants give, and may not be prepared or solicitated ins ParkLane.

Any proposal automatical in response to this automation should be automated in accordance with the revised ADF Proposal & Assett Publica & Procedures Quote (PAPPO) ( NOT 330 1 ), which is effective for proposale automitted, or stan, on or after October 4, 2001.

#### SUMMARY OF PROGRAM REQUIREMENTS

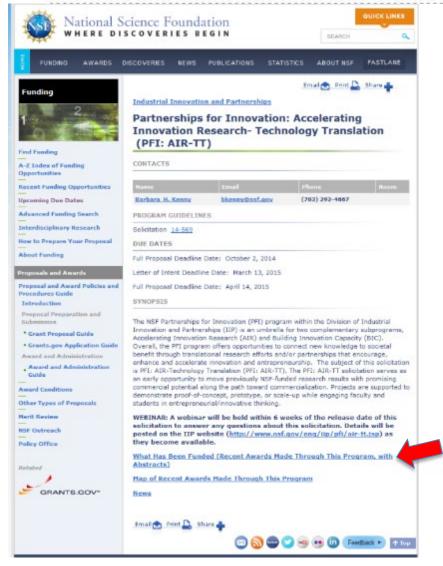
General Information

### Agency websites often show what was previously funded.



www.nsf.gov

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

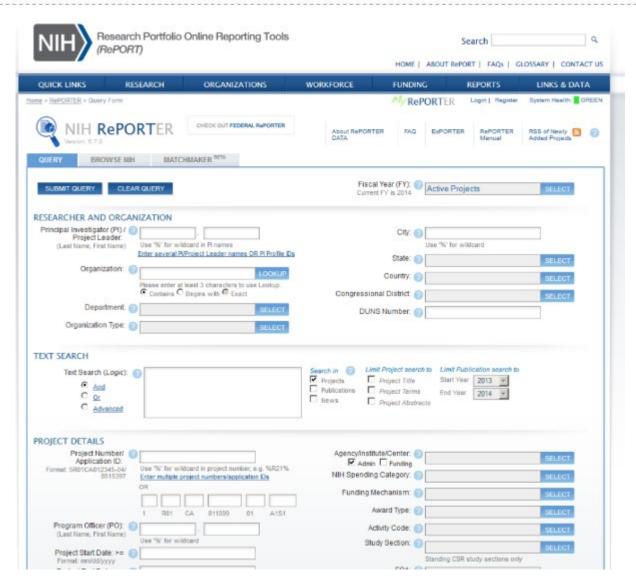


What Has Been Funded (Recent Awards Made Through This Program, with Abstracts)

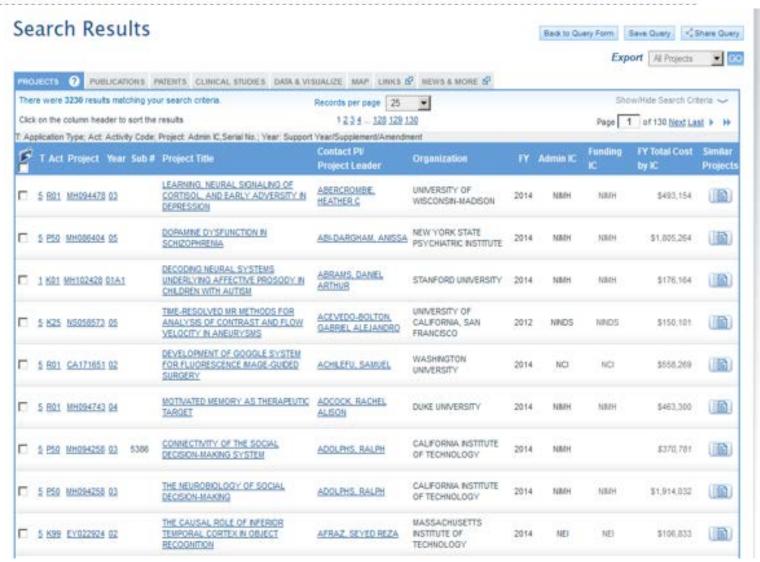
Map of Recent Awards Made Through This Program

News

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



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



### 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?
  - 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, etc.
- · 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
  - o. 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?

- · Provide detailed descriptions of examples of research projects o 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 Timetable

- · Need Gantt-style chart such as this.

Program Initiative	Teacone	Year Two	Tear Three	Year Four	Year Five
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Departmental Transformation					
Diversity Foreign					
China Dept Read (E.F.)					1,411
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Building Naturely					
Summer	100				100
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Evaluation and Assessment					
STEM Climate Assessment		7			e .
Space Revision Scientism					
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Tests					-
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Triang Programming	100	7. 7. 100			100
Dissemination	10000				
T-6124	50000	100000	Marine Control	100000	9
CIC Miner in Academia	1000	1000	. 000	1000	
Name Areader Shifting Published			TO SHARE THE PARTY OF THE PARTY	TO SERVICE SER	1
Publication					
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







• Answer "Why you?"



Be responsive to agency



Know what reviewers need



Plan for

- Enable fast/quality review
- Use formatting as roadmap
- Think visually
- Write clear and concise

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

- Use formatting as a roadmap
- Be generous with white space and clear graphics
- Write to broader expertise
- Readability....shorter sentences, active voice, proofread

### Parallel formatting provides a roadmap to help your reviewer

#### Goal I: [nite] Name (lead); Names · Provide overview of objectives so reviewers have a roadmap o Include how objectives integrate Objective 1.1 [Title] [text in line] · Technical gap to be addressed · Preliminary data Tasks Risk mitigation Objective 1.2 [Title] [text in line] · Technical gap to be addressed Preliminary data Tasks · Risk mitigation Objective 1.3 [Title] [text in line] · Technical gap to be addressed · Preliminary data Tasks · Risk mitigation Goal 2: [nite] Name (lead): Names · Provide overview of objectives so reviewers have a roadmap Include how objectives integrate Objective 2.1 [Title] [text in line] · Technical gap to be addressed

- · Preliminary data
- Tasks
- Risk mitigation

#### Objective 2.2 [Title] [text in line]

- · Technical gap to be addressed
- Preliminary data
- Tasks
- Risk mitigation

#### Objective 2.3 [Title] [text in line]

- · Technical gap to be addressed
- · Preliminary data
- Tasks
- · Risk mitigation

### 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 marise 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 the research work initiated has not yet been of a quality to transform the engineering community culture; and 5) the information technology infrastructure, which had initially imprired 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 trapic disaster in Nechuan, 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. continues 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 various 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 conveniently 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, insorvative 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 sortification of users (including both physical and analytical researchers), NEEShah users, and education, outreach and training targets; 2) a greater discretification of users, research sponsors, operations sponsors, outreach community, and the NEEShah community; 3) increased research productivity in earthquake engineering, including the increased use of NEES equipment by remote users; 4) greater tenant on codes, technical committees, professional societies, and research directions; and, eventually, 5) reduced losses from earthquakes.

#### Format 2

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 peotechnical 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.

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transform the engineering community culture; and 3) the information technology infrastructure, which had initially impired 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.

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#### Strategic Plan

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 coveracy; 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.

**Sloppy writing = sloppy science** 



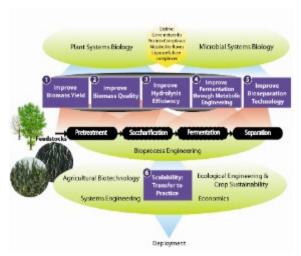
**Mechanics matter. Sloppy writing = sloppy science** 

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

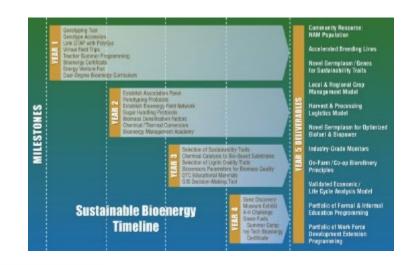
### changed to:

We investigated elemental mapping of animal tissues and documented results.

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









### **Use even simple visuals to summarize narrative when possible.**

Research Schedule		Yea	ar 1			Yea	ar 2			Yea	ar 3			Yea	ar 4	
	Q1	Q2	Q3	Q4												
Aim 1: Develop a large animal acquired hydrocephalus model																
Task 1.1: IACUC approval																
Task 1.2: Finalize kaolin injection protocol																
Task 1.3: Finalize MRI protocol																
Task 1.4: In vivo evaluation of acquired hydrocephalus model																
Aim 2: Quantify the lifetime of self-clearing catheter in vivo																
Task 2.1: Fabrication of dual-pore self-clearing catheter																
Task 2.2: Quantify impact of MRI on self-clearing catheter																
Task 2.3: Publication on MRI Interaction																
Task 2.4: Quantify self-clearing catheter performance and failure rate																
Task 2.5: Publication on self-clearing catheter in vivo performance																
Aim 3: Quantify the effect of microactuation duty cycle																
Task 3.1: Quantify the impact of prophylactic actuation																
Task 3.2: Quantify the impact of rescue actuation																
Task 3.3: Publication on the impact of prophylactic vs. rescue actuation																







• Answer "Why you?"





• Know wh

- Be respon
   Leave time for team editing
  - Plan review date at start
  - Formal or informal



Plan for internal review

### **Internal Review**

### New eyes on your draft before submission

	1	2	3	4	5	6	7	8	9	10
Analysis and Planning			177		100	-			tio .	
Distribute documents noted in RFP					1				1	
Identify previously successful proposals										
Identify PI					1	8				
Notify Pre-Award Center for assigned 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						1				
Goals		1								
Identify proposal win themes/discriminators										
Program Officer Input		700	125		50	16	537	3	377	11
Contact PO	initi	al						-		
Team debrief on meeting										
Refine initial analysis/planning				1		13				
Proposed Outline										
Discuss/refine outline structure		1					1		1	
More detailed outline, if needed										
Identify graphics needed				1						
Partnerships		ev.			.0.	554	10.		200	
Recruit collaborative partners						T	T			$\top$
Produce "talking points" brochure or website				10						-
Recruit industry affiliates			$\Box$							
Recruit advisory board members									1	
Collect letters of commitment										
Management and Personnel						7.7				
Identify basic management structure		T		15			1		1	
Collect biosketches			-							$\top$
Proposal Writing and Editing										
Assign writing		T			T		T		T	
Write section components			$\overline{}$				+		_	-
Compile I# draft		1				-				+
Project team 1st edit										
Any outside review input/edit										
Editing iterations										
Write summary or abstract		11								

Red Text: Important to have agreement (and explicit text for problem overview) prior to proposal writing

# Internal Review



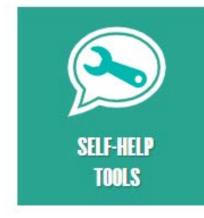








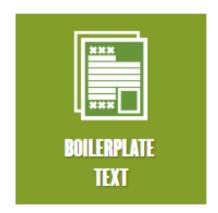








# **Drop-in Text for Resource/Facilities**





# **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)

# **Broader Impacts and Education Plans**



### What are Broader Impacts?



Broader impacts are the potential to benefit society and contribute to the achievement of specific, desired societal outcomes. They may be accomplished through:

- 1. the research itself
- 2. activities directly related to research projects
- 3. activities supported by and complementary to the project

A broader impact statement describes benefits and outcomes—not logistics.



"Cords" of research, education and outreach, and diversity-related activities integrate through your project to deliver **broader impacts**. For instance:

- Fuller Participation of Women, Persons with Disabilities, and Underrepresented Minorities in STEM
- Improved STEM Education and Educator Development
- Increased Public Scientific Literacy
- · Improved Well-Being of Individuals
- Development of a Diverse, Globally Competitive Workforce
- Increased Partnerships among Academia, Industry, Government, and Non-Profits
- · Improved National Security
- Increased U.S. Economic Competitivenese
- Informed Public Policy
- . Enhanced Research and Education Infrastructure

Example Broader Impact Statementa from Funded NSF Proposals

Steps to Develop an Education and Workforce Development Plan (Coming Soon!)

Tipe for Broadening Participation and Diversity, Equity, and Inclusion Plans

Request a Broader Impact Consultation

Other Broader Impact Resources

# Juestions?

