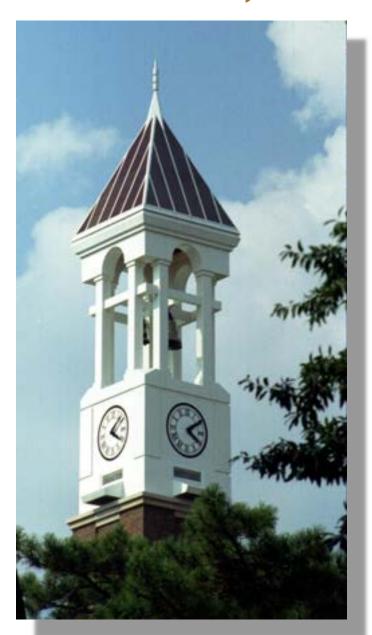
Purdue Research Development Services

Sally Bond
Director, Proposal Strategy and Development
Office of Research



Welcome, New Purdue Researchers!



- What is the Purdue process?
- How can grant writers help you?
- What resources are available?

Short Cut to Websites and Contacts



Getting Started

Overview.

Getting Started

Storyline Strategy

Request Grant Writing Help

Boilerplate Text

Data Management Plans

Biomedical Research

Development

Self-Help Tools

Broader Impacts

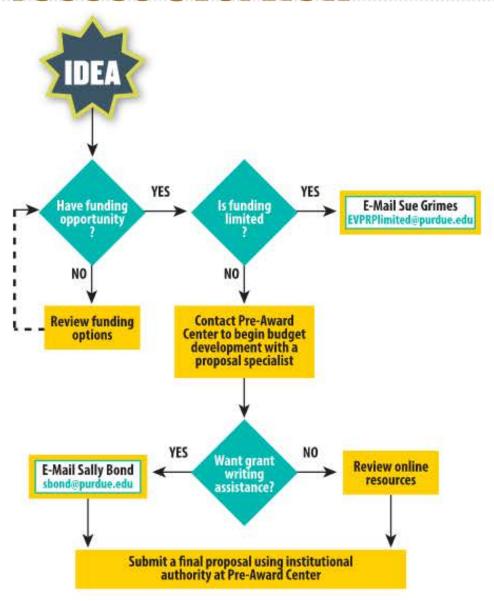
Agency Resources

Grant Writing Support

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



Purdue Process Overview



Early Investigator Funding

Funding Resources

Search Tools and Alerts

Funding Newsletters

Early Investigator Funding

Mid to Senior Investigator Funding

Research Instrumentation Program

Funding Strategies

Limited Submissions

Grant Writing Support

Site Visits

Events

Cost Sharing

Research Bridge Program

FAQs

Early Investigator Funding

Click on the links below for funding opportunities for Faculty and/or Post Doctoral Research.

For funding opportunities specifically geared towards graduate students, please see the <u>Funding Information Search of The</u> <u>Graduate School Funding Databases</u>

Faculty

ACS Mentored Scholar Grant in Applied and Clinical Research

AHRQ Career Development Grants Focused on Health Information Technology

ASHP Foundation Research Grant

Air Force Office of Scientific Research Young Investigator Research Program

American Federation for Aging Research Grants for Junior Faculty

Army Research Office Young Investigator Program

Alfred P. Sloan Foundation Sloan Research Fellows

Beckman Young Investigator Program

Blavetník National Awards for Young Scientists (Limited)

Brain & Behavior Research Foundation Young Investigator Grant

Camille Dreyfus Teacher-Scholar Awards (Limited)

CDMRP Career Development Awards

Damon Runyon Cancer Research Foundation Innovation Award

DARPA Young Faculty Award

DOE Office of Science Early Career Research Program

Gabrielle's Angel Foundation Medical Research Awards (Limited)

Greenwell Foundation Greenwall Faculty Scholars Program in Bioethics (Limited)

Jefferson Science Fellowship

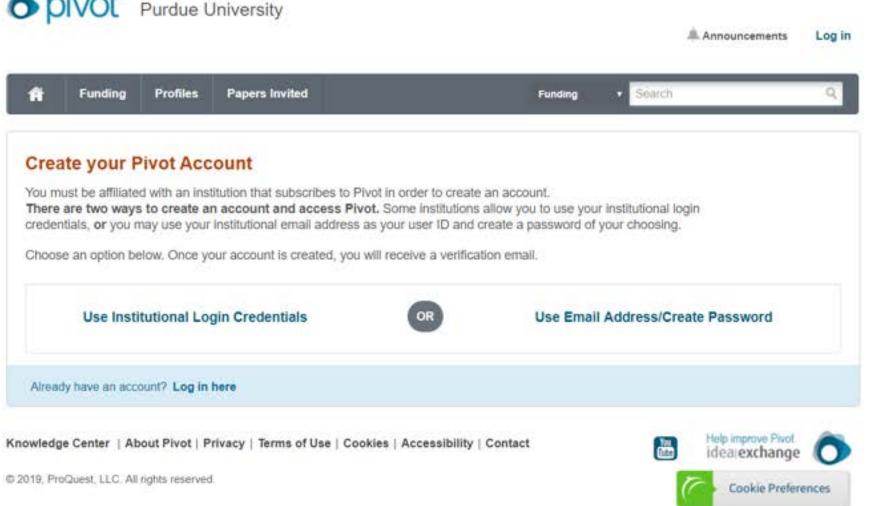
Microsoft Research Faculty Fellowships (Limited)

NASA Early Career Faculty



Set Up Your PIVOT Account





Weekly Funding Newsletter

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FOA, coal wastes are defined as the carbonaceous solid portion of waste resulting from the cleaning of coal. This FOA will support R&D across three different areas of interest (AOI), covering the entire value spectrum from high value through high volume. AOI 1 will support R&O of high value coal and coal waste derived solid carbon

Limited Submission Process

Purdue Internal Deadlines for Proposals

Download: Limited Submission Proposal and Review Process

NEW PROCESS FOR LIMITED SUBMISSIONS Purdue subscribes to InfoReady for on-line management of limited submission and internal funding competitions (https://purdue.infoready4.com/). Internal preproposals should be submitted using this system. In InfoReady, click on the blue Purdue University.cog button and use your Purdue credentials. On first use, click on your name in the upper, right corner and set your Primary Organization as "Purdue WL" then select your college.

* Preproposals are required unless otherwise stated and must be received before midnight (Eastern Time) of the due date to be eligible.

Program Name	Internal Deadline	Agency Deadline(s)	Preproposal Template		
NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)	8/28/23	10/24/23 - Network Connectors and Alliance 10/30/23 - Conferences	Template Apply		
Greenwall Foundation Faculty Scholars Program in Bioethics	8/21/23	9/18/23 - LOI; 1/8/24 - Application by invite	Template Apply		
University Consortium for Applied Hypersonics (UCAH) Project Call	8/21/23	9/11/23 - LOI; 11/1/23 - Proposal	Template Apply		
NSF National Artificial Intelligence Research Institutes					
NSF Research Security and Integrity	8/14/23	9/8/23 - LOI; 10/30/23 - Full	Template		

Grant Writing Assistance and Resources

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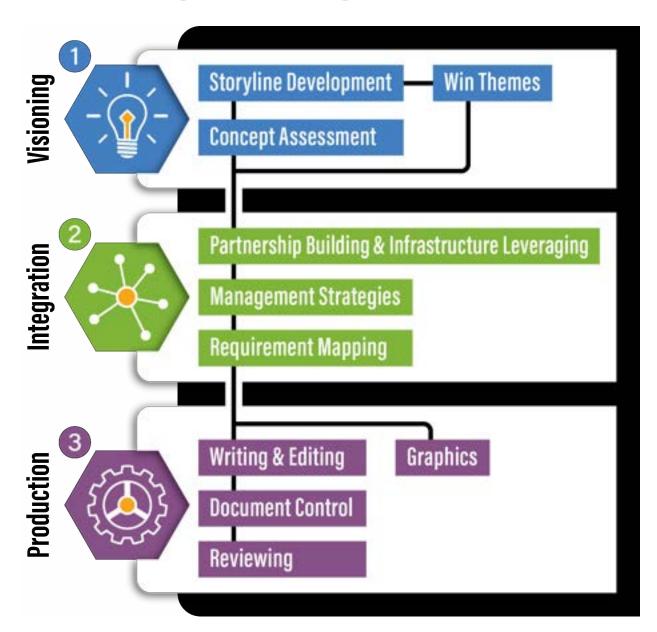








Grant Writing Strategy





A Good Proposal Tells a Compelling Story

- Identifies an important problem
- Provides coherence or a "north star" for your ideas
- Hooks reviewer so weaknesses are not fatal



Logic Flow

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



Logic Flow

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



Sample Storylines

What exactly does a storyline look like? Access color-coded examples from funded proposals.

Capobianco NSF IUSE Two Step Storyline Process

Huang MRI Storyline

Teegarden NIH R01 Specific Aims and Project Summary

Watts NIH R21 Storyline

Biological photosynthesis has long served as an inspiration for light-harvesting technologies, and fascination with this fundamental process has driven a century-long effort to uncover its mechanistic details. Despite dramatic advances, however, our molecular-level understanding of photosynthesis remains severely limited by uncertainty over how protein structure tunes the light-harvesting properties of pigment-protein complexes (PPCs), the molecular workhorses of photosynthesis. While crystallographic methods offer invaluable atomistic data and spectroscopic experiments provide enticing glimpses of PPC exciton dynamics, the link between structure and spectroscopy is often tenuous as it relies on empirical fits to severely congested optical spectra. Such spectroscopic ambiguity translates directly into uncertainty over energy transfer and trapping mechanisms, particularly in complex systems such as the Photosystem I (PSI) and Photosystem II (PSII) core complexes. To overcome this challenge, I propose to develop a robust toolkit for determining how protein structure tunes PPC optical properties and to use these tools to determine the molecular identities and functional roles of the low-energy trap states of PSII.

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.



- 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

Storyline to Concept Paper



INFEWS/T2: Identifying Sustainability Solutions through Global-Local-Global Analysis of a Coupled Water-Agriculture-Bioenergy System

The global Food-Energy-Water (FEW) system is under increasing pressure to meet rusing demands for food, energy, and water while maintaining ecosystem services provided by natural lands and waters. With growing population, rising per capita incomes, and climate charge, researchers predict imprecedented resource challenges in the next 30 years. Global crop output is expected to increase by anywhere from 70% to more than 100%, global freshwater demand by 55% as one of the most fiercely contested resources; and global bioenergy demand by more than 1,000%. These challenges are interconnected—both across systems and across scales—so that addressing one system or location will inevitably cascade into others. Decision makers without the capacity to factor in these interconnections risk madvertently pursuing unsustainable solutions and anintended consequences flowing from FEW system interventions.

Research loss focused on malyzing effects within secrocoourne; systems and within mutual systems and it nowing toward successed are gration that emphasizes the role of systems and within mutual systems as a second or a successful property of the systems of the first systems. However, such analyses typically omit at least one of the first systems—food accurity, bisenergy, water quality, and groundwater scarcity—and do not account for socioecological feedbacks. As a result, despite significant swestments made by the integrated assessment communities at both global and regional scates, a critical research gap remains in our utility to assess suntainability solutions that have both cross-sparm and cross-scale components. The absence of feedback from local actions to regional, national, and global affects stakes it nearly impossible to achieve a complete analysis of traderiffs associated with alternative policy and mutualization interventions.

We will address this knowledge gap by building as integrative framework for analysis of FEWS solutions that highlights synergies and tradeoffs resulting from multiple policy levers and thereby allows the development of more comprehensive sustainability solutions. We will begin with the analysis of individual interventions (levers) and progress to multiple interventions that reveal how policy levers interact across systems and seales for a Global to Local to Global community of practice. Our three goals are to:

- Goal I, Single-lever analysis: Establish system behavior and identify the performance of individual levers and feedbacks to the larger integrated system via cascading pathways of impacts.
- Goal 2. Multiple-lever analysis: Using the integrated system, identify high-performing strategies composed of multiple levers that reveal the trade-offs, synergies, and economic costs associated with managing FEWS challenges.
- Goal 3. Community of Practice: Foster development of a community of practice utilizing Global-Local-Global methods to examine integrative solutions to these FEWS challenges.

Our open-source framework will strategically build on a portfolio of internationally vetted tools we have previously authored as global models of hydrology and water quality (WBM), food systems (SIMPLE-G), bocnergy (ENVISAGE), and U.S. agro-ecology (Agro-IBIS). Our experienced, interdisciplinary team of essenchers have a history of productive collaboration across areas of global economic analysis of agriculture and environmental issues, policy trade-offs, and synergies associated with sustainability challenges, hydrology, and water quality. Our novel geospatial acience gateway Geothab will provide a proven cyber platform to accelerate progress toward project milestones.

The proposed system of systems will allow us to evaluate trade-offs and systemics across the FEW system for a suite of sustainability solutions. This framework will inform local/regional decision-making about sustainability goals by developing an open source, gridded FEW modeling system. Powered by NSF funded technologies GeoFlab on HUBseeo and utilize GABBs (geospatial data building blocks), as well as the XSFDE computational backbone, the framework will allow fine-scale analysis across broad geographies. We will analyze global drivers of local sustainability stresses as well as feedbacks to national and international FeWS stressors. This will deliver a more complete analysis of tradeoffs associated with different policies and pathways. Education and outreach on the GeoFlab will provide spatial analysis capabilities to stakeholders and non-experts without requiring local software resources.

Method

Why Us?

Impact

Drop-in Text for Resource/Facilities



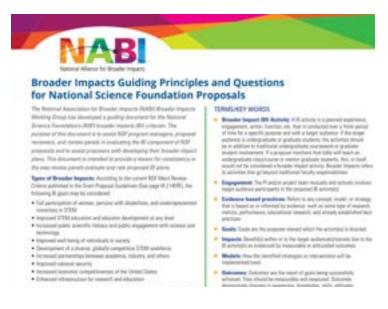


Broader Impacts & Broadening Participation









Sample Data Management Plans



DMP Development Resources

- Purdue Libraries Data Management Guidelines
- <u>Purdue-Affiliated dmptool.org</u> for data management plans templates, sample documents, and funder guidance.
- <u>Purdue's Research Repository (PURR)</u> 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)

Ask for Grant Writing Help

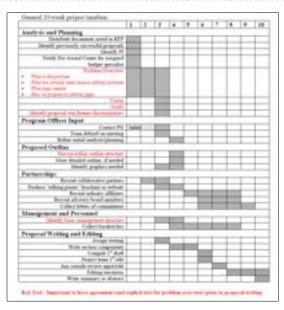


- Any award size
- Any agency
- External proposals only
- When? Sooner is better
- Concept storylines to shop your idea
- Email <u>sbond@purdue.edu</u>



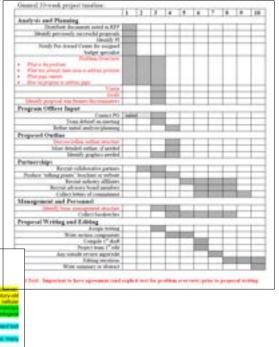






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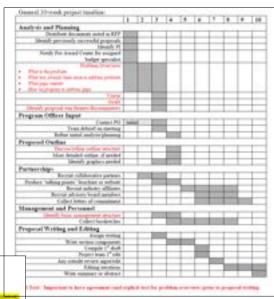
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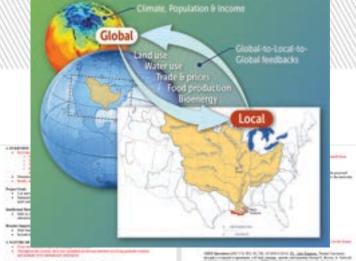
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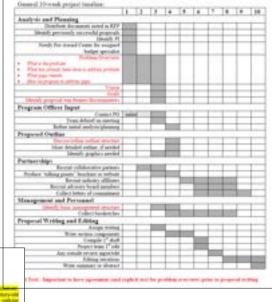
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- Districted methodology.
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Office of the Executive Vice President for Research and Partnerships





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- You are more likely to receive valuable insight into the funding potential of your idea if you follow these steps:
 - Make contact early let least several months in advanced.

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- Develop your concept paper using the format before Grant writers in the Office of Research and Partnerships can help you develop this text. Email dooslyspurdus wis to request help.
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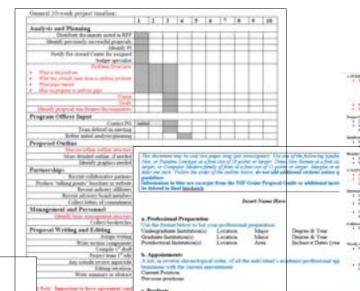
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Preparing for a Successful Meeting with Your Program Officer

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Office of the Executive Vice President for Research and Partnerships

Next Step? Sign up for Workshops

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 guidelines.



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.



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.

Workshops and Training

Grantsmanship Events

A series of grantementing workshops are hooted throughout the year by the Office of the Executive Vice President his Research and Partnerships. Many of these workshops are personally useful for new faculty or those new to the research process at Purstue:

For further ultimation and to register for an upcoming workshop, click on the link below. Please note that registration becomes available approximately one month prior to the event, at which point the workshop title becomes a hyperlink.

When possible, an archive of each presentation is available from the Past Events for below.

Upcoming Event List

Date, Time & Location	Description and Registration
Tuenday, September 5, 2023 1:30 - 3:00 p.m. (STEW 202	Overview of how to locate funding opportunities from federal, foundation and industrial sponsors. Summary of the limited submission process. Working with Pre-award for proposal submissions.
Thursday, September 28, 2023 8:30 - 3:00 p.m. STEW 310	This session provides an overview of the NiH and teaches tips for finding the best WiH shittute/Center for your research interests so well as strategies for successful proposals.
Tuenday, October 3, 2023 8:36 – 3:00 p.m. sitew 3m	This session provides additional guidance on tools and resources available to help you aucceed with NH proposals. This session is a follow-up to NH 101 but participation in 101 is not necessary for intendonce at this session.
Vrednesday, October 4, 2023 1:30 - 1:00 p.m. STEW 214ABC	Learn best practices for proposal writing and what services are available to assist you in these efforts.
Wednesday, October 25, 2023 8:30 - 1:00 p.m. 8:TEW 200	This session provides an overview of how Sponsored Program Services SP8) Pie-award office can assist you in developing a comprehensive budget for your proposel. Also, what is used share and when/how do you include it in a proposel?
	Tuesday, September 5, 2023 1:30 - 3:00 p.m. HTEW 202 Thursday, September 28, 2023 1:30 - 3:00 p.m. HTEW 300 Tuesday, October 3, 2023 1:30 - 3:00 p.m. HTEW 301 Vedinoiday, October 4, 2023 1:30 - 3:00 p.m. HTEW 2MADC Wednesday, October 4, 2023 1:30 - 3:00 p.m.



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