Presentation Outline

• Purpose of the SSG
• Scope
• Eligibility
• Funding Levels
• Submission Deadline
• Application Process
• Support for Awardees
• Awardee’s Obligations
• Review Criteria
• Proposal Features
I. Purpose of the SSGS

• To provide faculty in STEM departments with seed funding to develop, implement, and evaluate the impact of pedagogical innovations across multiple STEM courses at IUPUI.

• To facilitate and support STEM education innovation and research by growing the body of Discipline-Based Education researchers at IUPUI.

• To enhance your competitiveness for external funding.
DBER Seeks to...

• Understand how people learn the concepts, practices, and ways of thinking of STEM;
• Understand the nature and development of expertise in a discipline;
• Help identify and measure appropriate learning objectives and instructional approaches that advance students toward those objectives;
• Contribute to the knowledge base in a way that can guide the translation of DBER findings to classroom practice;
• Identify approaches to make science and engineering education broad and inclusive

II. Scope

• The SSG supports:
  – A wide range of curricular innovations
  – Potentially transformative projects
  – Projects implemented in the *undergraduate curriculum* at IUPUI
  – Projects that provide opportunities for novel Discipline-Based Educational Research

• Proposals should include:
  – An innovative aspect
  – A plan to assess/evaluate student impact (*we will help you refine the conceptualization of this component post-award*)
II. Scope
Project Ideas

• Developing and exploring any novel and potentially transformative approach to teaching science, technology, engineering, mathematics, or informatics to undergraduate STEM students at IUPUI

• Situating a rigorously tested pedagogical approach that has been proven to work in one context within another

• Utilizing technology within or beyond the STEM classroom in novel ways

• Fostering interdisciplinary collaborations among student teams from within and outside of STEM or across STEM disciplines
III. Eligibility

- The PI must be an IUPUI full-time faculty within the School of Science, the School of Engineering and Technology, or the School of Informatics and Computing (tenured, tenure track, and non-tenure track).

- Co-PI(s) may also include faculty members from the School of Education or any other school.

- Other part-time or adjunct faculty within the School of Science or the School of Engineering and Technology may be included on proposals but may not serve as a PI.
IV. Funding Levels

• Up to $150,000 for projects from 18 to 24 months.
• Teams can apply for up to $30,000.
• SEIRI reserves the right to negotiate budgets.
V. Submission Deadline

By May 15, 2017, 11:59pm EST, upload to

https://iu.co1.qualtrics.com/SE/?SID=SV_1Y3BdVnMgyEYHwV&Q_JFE=0

Late submissions will be returned without review.
VI. Application Process

• Direct your SSG-related questions to seiri@iupui.edu

• For an appointment, call 317-278-0168
VII. Support for Awardees

• Programmatic Consultations Post-Award
  – Developing an assessment/evaluation plan
  – Preparing IRB Materials
VIII. Awardees’ Obligations

- **July 2017**: Notification of funding
- **ASAP**: Apply for and receive IRB
- **For the duration of the project**: Agree to work with a facilitator from SEIRI who will serve as a consultant and will monitor the progress of the project.
- **August 2017**: Attend session for awardees
- **Spring 2018**: Present at a SSG symposium
- **July 2019**: Complete final project reports
- **Within 24 months**: Apply for external funding
- **When you disseminate findings, acknowledge SSG support**
IX. Review Criteria

1. The potential **student impact** of the project
2. The **sustainability** and long-term impact of the project
3. The potential for the project to **advance knowledge**
4. The **appropriateness** of the budget
5. The **qualifications** of the team to conduct the work
6. The probability of the project leading to **external funding**
XI. Proposal Features

1. Project Summary (1-page maximum)
2. Project Description (8-page maximum)
3. Project Timeline (1-page maximum)
4. Budget Overview
5. Budget Justification (1-page maximum)
6. Bio-sketches
7. Letters of Support from Department Chairs
XI. Proposal Features

Project Summary (1-page)

• Project Title
• List all investigators, including full name, department, rank/title, and e-mail address
• Optional: Other personnel (collaborators, technicians, graduate students, postdocs)
• List potential sources of future funding (NSF, NIH, etc.)
• Abstract: Describe the project in lay terms; articulate the project objective; specify what makes this project innovative; describe your research or evaluation plan to ascertain student impact (this will be listed on SEIRI’s website if the project is funded)
XI. Proposal Features

Project Description (8 pages)

• Project Scope
  – Objectives
  – Participants
  – Recruitment
• Rationale and Literature Review
• Novelty
• Assessment/Evaluation Plan
• Roles of Key Personnel
• Dissemination Plan
• Broader Impacts
• References (these do not count towards the max)
### XI. Proposal Features

#### Project Timeline (an example)

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<thead>
<tr>
<th>YEAR</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
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<td>1 2 3 4 5 6 7 8 9 10 11 12</td>
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<tr>
<td>Part 1 Data Collection</td>
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<td>Other Dissemination</td>
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XI. Proposal Features

Budget Overview

Use either your own template or one offered by ORA:
http://www.researchadmin.iu.edu/GrantContract/gc-propprep/gcs_samples.html

Note that there are no indirect costs.
XI. Proposal Features

Budget Justification (1 page)

Make sure this aligns with your budget.
XI. Proposal Features

Biographical Sketches (1-page each)

- List Professional Preparation
- Current and Prior Academic Appointments
- Current and Pending Funding
- Relevant products (e.g., Patents, Publications)
XI. Proposal Features

Letter(s) of Support

A letter of support from each investigator’s Department Chair must be uploaded with your application.
Leverage resources on our new website:

http://seiri.iupui.edu

*Screenshot taken March 20, 2017*
Join us next week...

Teaching@IUPUI: An Introduction to Course Evaluation and Assessment

Presenters: Grant Fore, Justin Hess,
Date/Time: April 19, 2017, 11:30 am – 12:30pm
Where: Online – Adobe Connect

Registration Link:
http://ctl.iupui.edu/Workshops-Events/Events/EventRegistration?eventid=e167ffa1-aa0c-4236-83ec-14dd007078ca&scheduleid=4d65470b-02e0-4768-8a44-1b0c3aa98a06
Identify funding opportunities on our website:

http://seiri.iupui.edu

Thank you.

Questions?