Presentation Outline

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

• Seed funding to develop, implement, and evaluate the impact of pedagogical innovations across STEM courses at IUPUI.

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

• Enhance 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

Questions?
Scope

• The SSG supports:
  – A wide range of curricular innovations
  – Potentially transformative projects
  – Projects implemented in the undergraduate or graduate STEM 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*)
Scope
Project Ideas

• Developing and exploring any novel and potentially transformative approach to teaching STEM, or informatics
• Situating a rigorously tested pedagogical approach from one context to another
• Utilizing technology within or beyond the STEM classroom in novel ways
• Fostering interdisciplinary collaborations among student teams
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 mentioned above.

• 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.
Funding Levels

• Teams can apply for up to $30,000 from 18 to 24 months.

• SEIRI reserves the right to negotiate budgets.
Submission Deadline

By May 13, 2018, 11:59pm EST, upload to
https://iu.co1.qualtrics.com/jfe/form/SV_1Y5iyrQL2R1r0W1

Late submissions will be returned without review.
Application Process

• Direct your SSG-related questions to Annwesa Dasgupta (adasgup@iu.edu)

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

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

- **July 2018**: 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 2018**: Attend session for awardees
- **Spring 2020**: Present at a SSG symposium
- **July 2020**: Complete final project reports
- **Within 24 months**: Apply for external funding
Awardees’ Obligations

When you disseminate findings, acknowledge SEIRI SSG support

“This project was supported by the seed grant from SEIRI at IUPUI.”
Review Criteria

• The potential student impact of the project
• The potential for the project to advance knowledge
• The appropriateness of the budget, including faculty time commitment
• The qualifications of the team to conduct the work
• The sustainability and long-term impact of the project
• The probability of the project leading to external funding
Other Considerations

• Awardees with current funding are not eligible to reapply until submission of final report of current award.

• Include evidence from previous research or efforts underlining your proposal.

• Include information about specific assessment tools (publicly available or published) aligned with your project goals.
## XI. Proposal Features

### Project Timeline (an example)

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<thead>
<tr>
<th>YEAR</th>
<th>2018</th>
<th>2019</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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<td>Part 1 Data Collection</td>
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<td>Conference Travel</td>
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<tr>
<td>Other Dissemination</td>
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</tbody>
</table>
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.
Proposal Features

Budget Justification (1 page)

Make sure this aligns with your budget. Make sure budget aligns with your project timeline and plan.
Proposal Features

Biographical Sketches (2-page max)

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

Letter(s) of Support

A letter of support from each investigator’s Department Chair must be uploaded with your application.

Letter of support should be no more than 1-page.
Leverage resources on our website:

http://seiri.iupui.edu
Identify funding opportunities on our website:

http://seiri.iupui.edu

Thank you.

Questions?
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 (2-page maximum)
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)
• 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
  – Schematic or flowchart
• Rationale and Literature Review
• Novelty
• Assessment/Evaluation Plan
• Roles of Key Personnel
• Dissemination Plan
• Broader Impacts
• References (these do not count towards the max)