SIIP Adaptation Track
2018 Call for Proposals

College of Engineering
University of Illinois at Urbana-Champaign
18 January 2018

Goal
To accelerate the collaborative spread of current best practices for teaching in the College of Engineering.

Synopsis
The SIIP Adaptation track will support new communities of practice in replicating the innovations (teaching methodologies and technologies) of selected current and past Strategic Instructional Innovations Program (SIIP) projects. The College of Engineering will support these communities of practice by providing a structure for collaboration and a small amount of funding for student hourly workers to help implement the initiatives.

Timeline
• Funding is for up to one year.
• SIIP informational meeting: Thursday February 1, 10:00 – 11:30am, 1304 Siebel Center
• Proposals will be accepted on a rolling basis throughout the academic year, beginning February 21, 2018.

Description
The SIIP Adaptation track is focused on increasing college-wide interconnectedness and collaboration in instructional excellence. It offers a way for faculty to reproduce and/or adapt best practices from SIIP teams whose innovations are applicable to other instructional contexts. PIs (principal investigators) will work closely with a member of a current or past SIIP team to learn about the innovation. Undergraduate or graduate hourly workers will be available to help with implementation.

SIIP Adaptation PIs will meet regularly with a member of a current SIIP team, who will provide advice and help connect teams to relevant resources.

Developing the proposal
PIs for all proposals must be College of Engineering faculty members (tenure-track or specialized). The PI may assemble a small team, but a team is not required. Any team members may be faculty, academic staff, and/or students from any department on campus. Preference will be given to teams with faculty participants previously not involved in a SIIP project.
The PI must secure a commitment of collaboration from an eligible SIIP team:

<table>
<thead>
<tr>
<th>SIIP Project</th>
<th>Expertise</th>
<th>Contact</th>
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<tbody>
<tr>
<td>TAM Course Reform</td>
<td>Re-designing methods and materials for teaching large classes using research-based instructional strategies; coordinating large classes</td>
<td>Matt West <a href="mailto:mwest@illinois.edu">mwest@illinois.edu</a></td>
</tr>
<tr>
<td>A Project-Based Introduction to Aerospace Engineering</td>
<td>Project-based learning, freshman communication skills</td>
<td>Brian Woodard <a href="mailto:bswoodrd@illinois.edu">bswoodrd@illinois.edu</a></td>
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<tr>
<td>Growing the PrairieLearn Community</td>
<td>Mastery-based online problem solving with adaptive scoring and recommendations driven by machine learning</td>
<td>Tim Bretl <a href="mailto:tbretl@illinois.edu">tbretl@illinois.edu</a></td>
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<tr>
<td>iDesign: Integrated MechSE Design Curriculum</td>
<td>Curriculum renewal, student design skills, methods and materials for student engagement</td>
<td>Liz Hsiao-Wecksler <a href="mailto:ethw@illinois.edu">ethw@illinois.edu</a></td>
</tr>
<tr>
<td>Developing Instruction in Technical Writing for Freshman Engineering Students</td>
<td>Student writing skills; training TAs to teach writing</td>
<td>Karin Jensen <a href="mailto:kjens@illinois.edu">kjens@illinois.edu</a></td>
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<tr>
<td>Engineers SPEAK: Just-in-Time Delivery of Presentation Instruction</td>
<td>Student speaking skills; cross-disciplinary collaborations</td>
<td>Jonathan Makela <a href="mailto:makela@illinois.edu">makela@illinois.edu</a></td>
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<tr>
<td>Teaching Assistant Training: Engineering Leadership Initiative for Teaching Enhancement (ELITE)</td>
<td>Teaching and leadership skills for graduate teaching assistants</td>
<td>Yuting Chen <a href="mailto:yywchen@illinois.edu">yywchen@illinois.edu</a></td>
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<tr>
<td>Developing Intervention Methods that Improve Visuospatial Skills of Engineering Students</td>
<td>Computerized training modules, visuospatial skills</td>
<td>Wai-Tat Fu <a href="mailto:wfu@illinois.edu">wfu@illinois.edu</a></td>
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<tr>
<td>Nurturing Design Thinking in Engineering Courses</td>
<td>Design thinking, studio critique method, cross-disciplinary collaborations</td>
<td>Sam Tawfick <a href="mailto:tawfick@illinois.edu">tawfick@illinois.edu</a></td>
</tr>
</tbody>
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AE3 staff and Education Innovation Fellows are available to help make contacts and connections:

- Laura Hahn (AE3) lhahn@illinois.edu
- Jenny Amos (BioE) jamos@illinois.edu
- Brian Bailey (CS) bpbaiiley@illinois.edu
- Tim Bretl (AeroE) tbretl@illinois.edu
- Geoffrey Herman (CS AE3) gilherman@illinois.edu
- Chris Migotsky (AE3) migotsky@illinois.edu
- Elif Ertekin (MechSE) Ertekin@illinois.edu
- Jeff Roesler (CEE) jroesler@illinois.edu
- Jeff Erickson (CS) jeffe@illinois.edu
- Jonathan Makela (ECE) makela@illinois.edu
Proposal submission and award process

1. Proposals should include:
   a. A statement of the purpose of the project (the problem, the rationale for the SIIP team collaboration, and the intended outcomes).
   b. A timeline and description of the work to be accomplished, the plan for interacting with the “source” SIIP team, and the need for student workers. PIs may recruit their own student workers or request them from a pool in AE3.
   c. An indication of any financial and in-kind support the department will provide for the proposed project. Such support is not required, but may strengthen the proposal. Examples of previous support include faculty teaching release time, additional TA support, and equipment and space resources.
   d. A list of the team members (if any).

2. Proposal evaluation: Proposals will be evaluated based on their strategic value, as well as evidence of a demonstrated commitment to implementing and sustaining efforts.

3. Awardees receiving SIIP Adaptation funding will submit a final report on their projects, and share their results at a poster session at AE3’s Celebration of Teaching in April.

4. Please address questions and proposal submissions to Laura Hahn, Director, AE3 (Lhahn@illinois.edu).