

Transforming Undergraduate Education in the College of Engineering – Call for Proposals

The College of Engineering is soliciting proposals from faculty and staff within the college for projects that align with the vision and educational goals developed through the efforts of 2010 Task Force. Proposals must address development, implementation, assessment and dissemination of projects that will demonstrate major advance in providing a contemporary undergraduate engineering education. For FY 08, we expect to fund this program at a level of approximately \$500,000 distributed amongst a variety of project sizes ranging from \$10,000 to \$80,000. **Please be aware that funding awarded through this call is anticipated to begin July 1, 2007 and expenditures must be completed by June 30, 2008. The goal is to begin implementation for some projects in the fall semester of 2007 and all projects no later than September 2008.**

This call for proposals is based on the goal described by the 2010 Roundtable¹:

The College of Engineering will provide a contemporary engineering education that is strong in the fundamentals of the discipline and also fosters an understanding of the societal context of engineering and a passion for life-long learning. This will be achieved by guiding students through new educational opportunities to:

- *build disciplinary excellence with multidisciplinary perspective,*
- *nurture critical thinking,*
- *develop multicultural competence,*
- *cultivate collaboration and leadership skills, and*
- *promote an ethic of service to the profession and the community.*

Preference will be given to proposals that address one or more of the following broad themes developed by the 2010 Roundtable during the fall of 2006:

- Societal/multicultural understanding
Examples include but are not limited to projects that increase the number of students who study or work abroad and those that increase students' understanding of globalization.
- Multidisciplinary perspective
Examples include but are not limited to projects that foster cross-departmental community within and outside the CoE either through team-taught courses or other mechanisms.
- Flexible and relevant curricula
Examples include but are not limited to projects that create modular courses or otherwise allow students options in satisfying degree requirements.

¹ Roundtable members: Sandy Arnn, Sue Babcock, John Booske, Steve Clark, Mike Corradini, Steve Cramer, Neil Duffie, Mike Graham, Laura Grossenbacher, Dan Klingenberg, Phil O'Leary, Jay Martin, Mike Morrow, John Nelson, Paul Percy, Sarah Pfatteicher, Rob Radwin, Parmesh Ramanathan, Jeff Russell, Nicole Rybeck, Harry Steudel, Amy Wendt, Don Woolston

- Service to the profession and community
Examples include but are not limited to projects that increase the service-learning or leadership opportunities available to students or that introduce such themes into existing courses.
- Contemporary educational delivery
Examples include but are not limited to projects that draw on or support the use of technology to enhance learning.
- Professional development for students
Examples include but are not limited to projects that enhance students' experience in communication, entrepreneurship, ethics, and other professional (read: "non-technical") skills.

Deadline and Submission Information

Proposals must be received by 5 p.m. CST, Tuesday, March 20, 2007.

An electronic copy, including all supporting documentation compiled into a single pdf file with the PIs last name in the file name, must be emailed to:

Debbie Schiess at schiess@engr.wisc.edu

Decisions regarding proposal status will be distributed by April 5, 2007. Final decisions on funded projects are expected to be announced by May 11, 2007.

A subset of proposers will be asked to prepare a poster for public presentation (30"x40" maximum) describing their project and work plan. The poster format will be issued upon notification in April. The poster will be presented in a public forum and in a separate meeting where the project team will present their poster to the selection team in an interview format. Final selection of projects will be made based on this interview and the proposal. Selected project teams may be asked to modify their work plan as a condition of the award. Awardees will be asked to provide a summary of their project plans for posting on the 2010 Task Force website.

Criteria for Selection

Proposals will be evaluated based on:

- **Alignment with 2010 Roundtable themes and goals (listed above),**
- **Collaboration across departments or units,**
- **Potential impact for moving the College toward the 2010 Vision (at www.engr.wisc.edu/2010),**
- **Potential for successful project execution,**
- **Potential to readily expand and replicate pilot projects, and**
- **Anticipated benefit to student learning and educational productivity.**

The selection committee will consist of members from the 2010 Task Force, other CoE faculty and staff, and an undergraduate CoE student. Principal investigators on proposals will not be on the selection committee.

Proposal Format and Organization

The Proposal should include the following:

- 1) Cover Page – project title, principal investigator’s name and contact information (title, address, department or unit, telephone, and email). Below this information list all project collaborators and their primary department or unit.
- 2) Body of proposal – **no more than four single spaced pages** (8 ½” X 11” with 10 point or larger font) that provide:
 - a. A brief statement of the problem to be solved and project objectives;
 - b. A statement of how the project advances the 2010 Roundtable goal and themes;
 - c. A description of the project approach, work plan, and project personnel;
 - d. A brief description touching on assessment, dissemination and sustainability of the project.
 - e. A description of cooperative features and/or partnerships (if any).
- 3) Budget estimate with a description of schedule for FY 08 (July 07 – June 08)
 - a. *Budget* – Provide a budget estimate using the form posted at www.engr.wisc.edu/2010. Matching funds are not required, but if they are available please note them.
 - b. *Project Schedule* – Funding may start as early as July 1, 2007, and budget expenditures should be completed by June 30, 2008.
- 4) Additional documentation
 - a. PI’s biographical information (only the lead PI) is limited to one page.
 - b. Budget justification as appropriate, limited to one page.
 - c. Inclusion of additional relevant information is discouraged, but if the PI determines that it is necessary, it is limited to a single page.

Other Information

Project teams ultimately funded will be required to meet at least twice with the 2010 Task Force during the project duration. A preliminary report on the status of the project will be due three months after the start of the project.

The project dissemination plan should include at least one progress summary and a brief final report both suitable for posting on the 2010 Task Force website. PI’s should be prepared for and open to editorial suggestions from the 2010 Task Force on final reports. Project teams are greatly encouraged to prepare presentations and reports for conferences and other venues.

Questions regarding this Call for Proposals may be directed to Steve Cramer, Associate Dean of Academic Affairs, at 608/265-2001 or Sarah Pfatteicher, Assistant Dean of Academic Affairs, 608/265-5925.