

Transforming Undergraduate Education in the College of Engineering 08-09 – 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 09, we expect to fund this program at a level up to 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, 2008 and expenditures must be completed by June 30, 2009. The goal is to begin implementation for some projects as early as the fall semester of 2008 and all projects no later than September 2009.**

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.*

The 2010 Roundtable¹ has advised that preference should be given to proposals that address one or more of the following broad themes, are sustainable and to the extent possible, engage core courses within the college:

- 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, Patricia Brennan, Steve Clark, Mike Corradini, Steve Cramer, Wendy Crone, Roxann Engelstad, Mike Graham, Laura Grossenbacher, Deborah Helman, Dan Klingenberg, Phil O'Leary, Mike Morrow, John Nelson, Paul Peercy, Rob Radwin, Parmesh Ramanathan, Jeff Russell, Darryl Thelen, Barry Van Veen, 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, Monday, March 17, 2008.

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

Final decisions on funded projects are expected to be announced in early May.

Final selection of projects will be made based on the proposal and an interview as needed. 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

Successful proposals will align with the 2010 Roundtable themes and goals (listed above) and address many of the following:

- **Impact on current curricula and core courses,**
- **Collaboration across departments or units with broad engagement of faculty and staff,**
- **Potential impact for moving the College toward the 2010 Vision (at www.engr.wisc.edu/2010),**
- **Potential for successful project execution,**
- **Potential for sustained impact and project expansion, and**
- **Anticipated benefit to student learning and educational productivity.**

Teams with current projects granted in 2007 are eligible for renewal funding, however, such renewals should be a clear step toward sustainability and if awarded, will typically be smaller awards. In such cases, the proposal should clearly describe the rationale and how additional funding will build on prior work. 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 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 description of 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 09 (July 08 – June 09)
 - a. *Budget* – Provide a budget estimate using the format shown in the appendix of this solicitation. Budgets should not include overhead or fringe benefits on salaries. Matching funds are not required, but if they are available please note them. Budgets should emphasize project development expense as opposed to a one-time project execution. Budgets may not include travel.
 - b. *Project Schedule* – Funding may start as early as July 1, 2008, and budget expenditures should be completed by June 30, 2009.
- 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 cramer@engr.wisc.edu.

Appendix: Budget Format

Do not apply fringe benefit rates or overhead

1. Senior Personnel

- name....monthly rate....period....total
- Subtotal

2. Other Personnel

- Other professionals (name....monthly rate....period....total)
- Teaching Assistant (monthly rate....period....total)
- Project Assistant (monthly rate....period....total)
- Research Assistant (monthly rate....period....total)
- Undergraduate students (hourly rateperiod....total)
- Subtotal

3. Other Direct Costs

- Materials and supplies
- Shop services
- Tuition remission (\$8,000 per research or teaching assistant per year)
- Subtotal

4. Total Direct Cost (sum subtotals 1 through 3)