

Transforming Undergraduate Education in the College of Engineering 09-10 – Call for Proposals

The College of Engineering through the efforts of 2010 and Beyond Round Table is soliciting proposals from faculty and staff within the college for course improvement projects with a strong preference for integration, modularization and innovation in core courses¹. Proposals are encouraged to do the following:

1. Modularize and restructure similar core courses currently offered in different departments to enable interdisciplinary teaching of common content with separate modules of discipline specific content.
2. As appropriate and feasible to the course, move toward on-line content using standardized tools to enable implementation of innovative teaching methods in the classroom.
3. As appropriate and feasible to the course, proposals are encouraged which enable students to take one or more modules of a course while studying abroad or participating in an internship off campus.

For FY 2010, we expect to fund project sizes ranging from \$10,000 to \$100,000 and approximately 6 awards. **Please be aware that funding awarded through this call is anticipated to begin July 1, 2009 and expenditures must be completed by June 30, 2010. The goal is to begin implementation for some projects as early as the fall semester of 2009 and all projects no later than September 2010.**

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

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.*

Deadline and Submission Information

Proposals must be received by 5 p.m. CST, Friday, March 13, 2009.

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

¹ Core courses are defined here as required 200 and 300 level and senior capstone CoE courses in degree curricula.

Final decisions on funded projects are expected to be announced prior to May 8th (last day of class).

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

Preference will be given to proposals that align with the core course integration, modularization and innovation as described above and address many of the following:

- **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 growth, 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 one or more undergraduate CoE students. 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 10 (July 09 – June 10)
 - 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 normal course offering expenses. Budgets may not include travel.
 - b. *Project Schedule* – Funding may start as early as July 1, 2009, and budget expenditures should be completed by June 30, 2010.
- 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 such additional information 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 or its representatives 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)