Synopsis

The Directorate for Engineering (ENG) and the Directorate for Computer and Information Science and Engineering (CISE), have joined to support the Research Experiences for Teachers (RET) in Engineering and Computer Science program. This program supports active long-term collaborative partnerships between K-12 Science, Technology, Engineering, Computer and Information Science, and Mathematics (STEM) teachers and community college and university faculty and students to bring knowledge of engineering or computer and information science and engineering as well as technological innovation to pre-college/community college classrooms. The goal of these partnerships is to enable K-12 STEM teachers and community college faculty to translate their research experiences and new knowledge gained in university settings into their classroom activities. The university team will include faculty, graduate and undergraduate students as well as industrial advisors. Involvement of graduate students in support of academic-year classroom activities is particularly encouraged. Partnerships with inner city, rural or other high needs schools are especially encouraged, as is participation by underrepresented minorities, women, and persons with disabilities.

As part of the long-term partnership arrangements, university undergraduate/graduate students will partner with pre-college/community college faculty in their classrooms during the academic year to help teach engineering/computer science concepts. This announcement features two mechanisms for support of in-service and pre-service K-12 STEM teachers and community college faculty: (1) RET supplements to ongoing ENG and CISE awards and (2) new RET Site awards. RET supplements may be included outside this solicitation in proposals for new or renewed NSF Directorate for Engineering (ENG) and Directorate for Computer and Information Science and Engineering (CISE) grants or as supplements to ongoing NSF ENG and CISE funded projects. RET in Engineering and Computer Science Sites, through this solicitation, are based on independent proposals from engineering or computer and/or information science departments, schools or colleges to initiate and conduct research participation projects for K-12 STEM teachers and/or community college faculty. Please see NSF solicitation for Program Objectives and additional information.

Eligibility

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

Limit on Number of Proposals per Organization:

- Three Site proposals may be submitted per competition by a U.S. academic institution, including a College/Department of Engineering, Engineering Technology, or Computer and/or Information Science as the lead institution. Please note that two proposals may have an engineering focus and one proposal may have a computer and/or information science focus. Potential PIs are advised to contact their institutional office of research regarding processes used to select proposals for submission.

PI Limit:

- The principal investigator of a RET in Engineering and Computer Science Site proposal must have a full-time, tenured or tenure-track faculty appointment within a College/Department of Engineering or Engineering Technology or a College/Department of Computer and/or Information Science broadly defined (e.g., including HCI, Software Engineering, Networking Science, Informatics) within the submitting U.S. academic institution.

Funding Guidelines

The total anticipated funding in FY 2015, FY 2016, and FY 2017 for both Sites and Supplements is approximately $5,800,000 per year, subject to the availability of funds. The maximum total request for a Site is $600,000 for a duration of up to three years. Supplements are limited to a maximum of $10,000 per teacher for a duration of one year subject to the availability of funds.
The on-campus nomination process

• Research Associate Deans advise faculty of restricted funding opportunity. Web sites are included to help distribute program information.
• Applicants provide their Research Associate Dean with a nomination that includes a 2-page description of proposed activity, including how that relevant research experience relates to the RFP and the agency and addresses the eligibility requirements.
• Colleges select only as many candidates as allowed (number specified above).
• Colleges fill out the Limited Submission RFP Nomination Form cover page found on the Limited Submission Program Announcements web page: (https://rsweb.research.colostate.edu/restrictedprograms/restricted_programs.aspx)
• Colleges forward nominations, including the Limited Submission RFP Nomination Form cover page, to Sponsored Programs via email (Restricted@research.colostate.edu). **DUE: 9/2/2016**
• The Vice President for Research and the VPR leadership team, in consultation with the Deans or other advisory groups as necessary, will determine which proposal(s)