NSF Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics

Funding Opportunity Number: 10-544
Expected Number of Awards: 108 Estimated Total Program Funding: $35,800,000
Award Ceiling: $5,000,000 Award Floor: $200,000

Full Proposal Deadline Date: January 14, 2011 For Type 2 and 3 proposals and for TUES Central Resource Project proposals. However, TUES Central Resource Project proposals for small focused workshops may be submitted at any time after consulting with a program officer.

Full Proposal Deadline Date: May 27, 2011 For Type 1 proposals from submitting organizations located in states or territories beginning with N through W.

Description

The Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics (TUES) program seeks to improve the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. This solicitation especially encourages projects that have the potential to transform undergraduate STEM education, for example, by bringing about widespread adoption of classroom practices that embody understanding of how students learn most effectively. Thus transferability and dissemination are critical aspects for projects developing instructional materials and methods and should be considered throughout the project’s lifetime. More advanced projects should involve efforts to facilitate adaptation at other sites. The program supports efforts to create, adapt, and disseminate new learning materials and teaching strategies to reflect advances both in STEM disciplines and in what is known about teaching and learning. It funds projects that develop faculty expertise, implement educational innovations, assess learning and evaluate innovations, prepare K-12 teachers, or conduct research on STEM teaching and learning. It also supports projects that further the work of the program itself, for example, synthesis and dissemination of findings across the program. The program supports projects representing different stages of development, ranging from small, exploratory investigations to large, comprehensive projects.