

Grant Opportunities

May 2016

In an effort to better inform faculty and staff about grant opportunities, this report will be updated monthly providing a high-level glimpse at funding possibilities for which projects could be developed that are consistent with BCTC's strategic plan and annual priorities.

Federal Grants

Title: [Regional Alliances and Multi-Stakeholder Partnerships to Stimulate \(RAMPS\) Cybersecurity Education and Workforce Development](#)

Sponsor: U.S. Department of Commerce (Administered under the National Institute of Standards and Technology [NIST])

Due Date: July 12, 2016

Maximum Funding Amount and Duration: \$200K over 15 months

Special Notes: 5-8 awards are expected

Description: The Regional Alliances and Multi-Stakeholder Partnerships to Stimulate (RAMPS) Cybersecurity Education and Workforce Development program focuses on aligning workforce needs with education and training offerings, increasing the pipeline of students pursuing cybersecurity careers, upskilling American workers to move them into cybersecurity jobs, and supporting local economic development. Applicants must be partnerships which include each of the following types of organizations:

- A K-12 school or Local Education Agency
- An institution of higher education or college/university system
- A local employer

Title: [Faculty Early Career Development Program](#)

Sponsor: National Science Foundation

Due Date: July 20, 2016 (BIO, CISE, EHR), July 21, 2016 (ENG), July 22, 2016 (GEO, MPS, SBE)

Maximum Funding Amount and Duration: Maximum funding amount is not specified. Minimum funding amount is \$400K over 5 years for most categories (\$500K over 5 years for BIO and ENG projects).

Special Notes: There are strict eligibility requirements regarding faculty status for these grants. Interested faculty should review these carefully prior to proceeding with proposal development.

Description: The Faculty Early Career Development Program (CAREER) helps junior faculty develop careers as outstanding researchers and educators who effectively integrate teaching, learning and discovery. This is a prestigious and competitive program—applicants are expected to propose plans which integrate research and education. Education activities may be directed to any level: K-12 students, undergraduates, graduate students, and/or the general public, but should be related to the proposed research. Examples include:

- Designing innovative courses or curricula
- Supporting teacher preparation and enhancement
- Conducting outreach and mentoring activities to enhance scientific literacy or involve students from groups that have been traditionally underrepresented in science
- Researching students' learning and conceptual development in the discipline
- Incorporating research activities into undergraduate courses
- Providing mentored international research experiences for U.S. students
- Linking education activities to industrial, international, or cross-disciplinary work

- Implementing innovative methods for evaluation and assessment
- Designing or adapting and implementing effective educational materials and practices

Title: [Innovative Technology Experiences for Students and Teachers \(ITEST\)](#)

Sponsor: National Science Foundation

Due Date: August 10, 2016

Maximum Funding Amount and Duration: \$1.2M over 3 years.

Description: The ITEST program supports the development and implementation of innovative strategies to make PreK-12 students aware of STEM careers and motivate them to prepare for those careers. Projects involve applied research that tests new learning strategies grounded in a strong theoretical framework. Partnerships with PreK-12 schools, two- and four-year colleges, universities, informal science education institutions, government laboratories, or community-based organizations are encouraged along with business and industry partners that support, inform, and cultivate student career awareness and interests.

Title: [Research Experiences for Undergraduates \(REU\)](#)

Sponsor: National Science Foundation

Due Date: August 24, 2016

Maximum Funding Amount and Duration: \$120K/year over 3 years

Special Notes: A significant fraction of student participants at an REU Site must come from outside the host institution or organization, and at least half of the student participants must be recruited from academic institutions where research opportunities in STEM are limited (including two-year colleges).

Description: The Research Experiences for Undergraduates program supports active undergraduate student participation in any of the research areas funded by NSF. Under this competition, applicants propose to establish specific site-based research projects. After projects are awarded, students from a nationwide audience apply to participate in them. While these are research-oriented grants that have traditionally been awarded to serve junior- or senior-level participants, the program also encourages student involvement at earlier stages of their college experience to more effectively attract them to science and engineering fields. Participating students must be enrolled in an associate or baccalaureate degree program. Students may be part- or full-time.

Title: [Occupational Safety and Health Training Project Grants](#)

Sponsor: Department of Health and Human Services

Due Date: Letter of Intent Due August 26, 2016; Full Proposal Due October 26, 2016

Maximum Funding Amount and Duration: \$50K/year for 3 years for new applicants in the undergraduate program track.

Special Notes: This program is available annually through 2019.

Description: The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC), invites grant applications for Training Project Grants (TPGs) that are focused on occupational safety and health training. NIOSH is mandated to provide an adequate supply of qualified personnel to carry out the purposes of the Occupational Safety and Health Act, and the TPGs are one of the principal means for meeting this mandate. The majority of TPGs are in academic institutions that provide high-quality training in the core occupational safety and health disciplines of industrial hygiene (IH), occupational health nursing (OHN), occupational medicine residency (OMR), occupational safety (OS), as well as closely related allied disciplines. NIOSH also funds non-academic programs to meet specific training needs of targeted populations including firefighters, commercial fishermen, and occupational health and safety interns.

Title: [Robert Noyce Teacher Scholarship Program](#)

Sponsor: National Science Foundation

Due Date: September 6, 2016

Maximum Funding Amount and Duration: Ranges from \$75K to \$3M over 1-6 years depending on program track and number of cohorts.

Description: The Robert Noyce Teacher Scholarship Program seeks to encourage STEM majors and professionals to become K-12 STEM teachers. NSF particularly encourages partnerships between two- and four-year institutions. This program contains multiple funding tracks, including:

- Robert Noyce Teacher Scholarships and Stipends (\$1.2M over 5 years)
- NSF Teaching Fellowships (\$3M over up to 6 years)
- NSF Master Teacher Fellowships (\$3M over up to 6 years)
- Noyce Research (\$800K over 5 years)
- Capacity Building (\$75K over 1 year)

Title: [Partnerships for Innovation: Accelerating Innovation Research – Technology Translation](#)

Sponsor: National Science Foundation

Due Date: Letter of Intent Due September 8, 2016; Full Proposal Due October 11, 2016

Maximum Funding Amount and Duration: \$200K over 18 months.

Special Notes: Additional grant competitions in September of 2016 and March of 2017.

Description: The National Science Foundation (NSF) Partnerships for Innovation: Accelerating Innovation Research – Technology Translation program helps move previously NSF-funded research results toward commercialization. *The Principal Investigator or co-PI must have had an NSF award that ended within 6 years of the full proposal deadline date or be a current NSF award recipient.* The proposed project must be derived from the research results and/or discoveries from this underlying NSF award. From the RFP: “The proposed project should be into the proof-of-concept or early prototype phase with promising results and an identified potential market need or application. The proposed research should address the next stage technology/knowledge gap(s) or barrier(s) that must be solved/demonstrated as part of the path from basic research discovery to eventual successful commercialization.”

Title: [Conferences and Workshops in the Mathematical Sciences](#)

Sponsor: National Science Foundation

Due Date: Proposals accepted anytime

Maximum Funding Amount and Duration: May request any amount for up to three years.

Description: Conferences, workshops, and related events (including seasonal schools and international travel by groups) support research and training activities for the mathematical sciences community. Proposals for conferences, workshops, or conference-like activities may request funding of any amount and for durations of up to three years. Proposals under this solicitation must be submitted to the appropriate DMS program in accordance with the lead-time requirements specified on the program web page.

Non-Federal Grants

Title: [Paul P. Fidler Research Grant](#)

Sponsor: National Resource Center for the First-Year Experience and Students in Transition

Due Date: July 1, 2016

Award Details: \$5,000 cash stipend, travel to two national conferences, presentation at a national conference, and priority consideration for publication.

Description: This program seeks to support and promote research with the potential to have a national impact on student success. Topics may include but are not limited to underrepresented student

populations, community colleges, the advising system, transfer and articulation, career development, and other issues related to college-student transitions.

Title: [Education/Literacy, Environmental Conservation, Cross-Cultural Understanding, Social Welfare, and Scientific Research Grants](#)

Sponsor: Mazda Foundation

Due Date: July 1, 2016

Maximum Funding Amount and Duration: Not specified. Awards are typically between \$5K and \$50K, although larger awards have been made.

Special Notes: Although not listed as a requirement, proposals incorporating other contributions (matching funds or cost share) are viewed more favorably.

Description: The Mazda Foundation awards grants to nonprofit organizations in the areas of education, literacy, environmental conservation, cross-cultural understanding, social welfare, and scientific research. Grant amounts are determined according to the nature and need of the program. To be eligible, organizations must be considered tax exempt under Section 501(c)(3) of the Internal Revenue Code. Past educational awards include establishing an after-school program, organizing STEM-based workshops for youth, and student scholarships. The foundation will not support:

- Individuals
 - Political organizations
 - Religious organizations
 - Fundraising dinners or events
 - Capital building, endowment, or debt reduction drives
 - For-profit organizations
 - Requests in foreign countries
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If you have questions or would like more information about a grant opportunity, contact Alan Lawson at 859-246-6626 or alan.lawson@kctcs.edu.