FY2022 Scholarship Awards

Academic Institution	Amount Awarded	Title of Proposal
Idaho State University	$197,009.00	Idaho State University Nuclear Science Scholarship Program
Oregon State University	$200,000.00	Oregon State University Nuclear Science Scholarship Program
Worcester Polytechnic Institute	$199,540.00	WPI Nuclear Science and Engineering Undergraduate Scholarship Program
Thomas Edison State University	$200,000.00	Thomas Edison State University Scholarship for Nuclear Energy Engineering Technology and Related Technical Programs
University of Wisconsin - Madison	$200,000.00	University of Wisconsin-Madison Undergraduate Scholarship Program

Idaho State University Nuclear Science Scholarship Program

Executive Summary:

Project Objectives and Benefits:
The objective of the Idaho State University (ISU) Nuclear Education Scholarship Program is to provide financial support and professional development opportunities to undergraduate students in nuclear engineering and health physics ABET-accredited BS degree programs. ISU is requesting from NRC funds for 5 two-year scholarships each of 3 years and to support the professional development of the scholars via opportunities including technical tours, participation in professional technical conferences, and training as an operator for ISU's nuclear reactor. In addition to the obvious financial benefits experienced by the scholars themselves, this scholarship program will benefit the broad nuclear industry by contributing to the education and development of successful graduates who enter the nuclear work force. Previous NRC scholarship awards to Idaho State have been successfully administered and have played a significant role in attracting and retaining students in our nuclear science and engineering degree programs.

Principal Investigator: Mary Lou Dunzik-Gougar, mldg@isu.edu

Oregon State University Nuclear Science Scholarship Program

Executive Summary:

Project Statement:
Objective – The School of Nuclear Science and Engineering (NSE) seeks funding through the Nuclear Regulatory Commission (NRC) Scholarship Program to award highly deserving undergraduate students attending Oregon State University (OSU) who are pursuing a Bachelor of Science in nuclear engineering or radiation health physics.

Building on the structures of previous NRC scholarship awards at OSU, this project will continue providing financial support to high-achieving undergraduate students while creating a new undergraduate professional development program. A plan has been developed to target under-represented groups to ensure a large and diverse pool of applicants. NSE will also leverage this scholarship program in recruiting undergraduate students. This integrated Oregon State University Nuclear Science Scholarship Program will help attract, prepare, and retain high-achieving undergraduate students in the U.S. nuclear industry. As a result, a more capable workforce will be developed to benefit the U.S. nuclear sector broadly.

Principal Investigator: Tianyi Chen, Assistant Professor. tianyi.chen@oregonstate

WPI Nuclear Science and Engineering Undergraduate Scholarship Program

Executive Summary:

The Worcester Polytechnic Institute Nuclear Science and Engineering Program (NSE) requests support for 4 undergraduate student scholarships per year for 3 years for a total of 12 student scholarships. Each scholar will receive a $10,000 scholarship and participate in an enhanced educational program described within. To maximize the impact of this scholarship program, we will prioritize support for 12 different students over the three-year period of this proposal. This award will target junior and senior NSE students, although promising and committed freshmen and sophomores also will be considered. Our goal is to develop a highly talented and competent workforce to support the nuclear power industry.

The WPI Scholarship Administrator will oversee an application and selection process aimed to obtain the best and brightest recipients for this program. Candidates will be assessed based on their academic achievements and their commitment and interest in the nuclear field.

Prior to starting this scholarship, a candidate must sign an agreement to pursue at least 6 months of employment within the nuclear industry for each year or partial year of support. As a scholar, the student will pursue an enhanced project-based educational program designed to enhance the fellow's professional success in the nuclear energy field. These program elements have the additional benefit of helping maintain the student's interest in nuclear energy and better incorporating the student into the NSE professional community.

Principal Investigator: William C McCarthy, wcmccarthy@wpi.edu

Thomas Edison State University Scholarship for Nuclear Energy Engineering Technology and Related Technical Programs

Executive Summary:

Project's Objectives and Benefits:
Having successfully implemented and managed five NRC Scholarship grants by awarding 170+ scholarships, Thomas Edison State University now seeks funding from the NRC to administer another three-year scholarship program that will award 30 scholarships based on academic performance and financial need, to qualified matriculated University students seeking career required technical baccalaureate degrees in 11 degree programs, including Nuclear Energy Engineering Technology (ABET accredited); Nuclear Engineering Technology with Concentration in Radiation Protection; Nuclear Engineering Technology; Energy Systems; Electronics Systems Engineering Technology (ABET accredited); Electronics Engineering Technology; Radiation Protection; Radiological Protection/Health Physics; Cybersecurity; Technical Studies; and Information Technology. The scholarships will support qualified, high potential students, many of whom are active-duty Navy Nuclear and other Military Service members, veterans, graduates of the Nuclear Uniform Curriculum Program (NUCP) from 29 active Community College partners, and graduates of the University's non-ABET accredited Nuclear Engineering Technology program who now wish to upgrade their degree status in order to graduate from the University's ABET-accredited Nuclear Energy Engineering Technology degree program. The University's transfer policy and acceptance of nuclear industry/military assessed training enables many students to transfer 60-80 credits toward a baccalaureate degree. In addition, the University's students usually work in nuclear energy, such as military, commercial nuclear facilities, DOE national laboratories, or are attending community college programs linked to the industry by NUCP or RCNET and are seeking career required technical baccalaureate degrees. The objective of the scholarship program is to increase student retention, help students graduate in a timely manner, and enter or experience professional growth in the nuclear safety and security sector.

Principal Investigator: John Aje, jaje@tesu.edu

University of Wisconsin-Madison Undergraduate Scholarship Program

Executive Summary:

The Engineering Physics (EP) Department at the University of Wisconsin-Madison (UW-Madison) requests support for its Undergraduate Scholarship Program in Nuclear Engineering and Engineering Physics (NEEP), in support of outstanding undergraduate students interested in nuclear power systems engineering and a career and employment in nuclear power related fields. Recipients will serve six months for each year of academic support. Employment may be with the U.S. Nuclear Regulatory Commission, other Federal agencies, State agencies, Department of Energy laboratories, nuclear-related industry, or academia in their sponsored fields of study. The EP department chair will administer the department's scholarship program. The proposed program will recruit high quality students from among the nuclear engineering programs' first year, sophomore and junior classes into the scholarship program, and award four scholarships per year to sophomores, juniors and seniors, to financially assist students in pursuit of their Bachelor of Science degree in Nuclear Engineering (BSNE). The recruitment, selection, and program administration of the students and their progress will use proven techniques from the EP department. The expected duration to obtain a BSNE degree is about 4 years, depending on the students' preparation. The EP department will supplement this award, as appropriate, to allow students to complete their degree. Evaluation of program success will be accomplished in a collaborative fashion. The EP department chair will utilize the Engineering Physics faculty to provide an ongoing review of the undergraduate students' progress toward their degree, as well as interactions with the nuclear power industry during any summer internships or co-op experiences.

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