Polytechnic University of Puerto Rico Department of Electrical and Computer Engineering and Computer Science

Funding Opportunity: NRC Proposal SBCR-FN-0210-MSIP01

Proposal Title: "NRC: Fellowship to Increase Research and Education in NRC Related

Areas in Puerto Rico"

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EXECUTIVE SUMMARY

Polytechnic University of Puerto Rico (PUPR) seeks \$335,353.00 to support nine students over a period of three years to substantially increase the number of women and minorities prepared with graduate studies for careers in nuclear science and The project will help alleviate the nationwide shortage of qualified professionals in related areas such as electrical engineering, computer engineering, and computer science. With this project, PUPR continues the efforts to enhance research and education in nuclear science and engineering related areas at the graduate level by developing research skills in their students and promoting scientific research within the academic community. The Electrical & Computer Engineering and Computer Science Department (ECECS) at PUPR offers graduate degrees in related areas such as Masters of Science in: Electrical Engineering, Computer Engineering, and Computer Science. As scientific disciplines are getting more and more intertwined, these disciplines become more relevant to the nuclear science and engineering fields. Involving students in research projects and immersing them in leadership, teamwork, and professional development will have a broader impact on the technological advancements that benefit our society and safeguard the critical U.S. network and system infrastructure. A very important component of this proposal is the funding of travel to disseminate results and research findings. PI and fellows will attend annual IEEE international conferences in Nuclear Science and Engineering to be held in the U.S. in the next three years to disseminate the results of the research and student thesis. Students work will also be disseminated in journals and conferences, and available through the PUPR web page.