

New York - Nuclear Research Opportunities Program (NY-NROP)

EXECUTIVE SUMMARY

A total funding of \$549,994 is requested over a period of five years to establish the “**New York - Nuclear Research Opportunities Program (NY-NROP)**” at City College of New York (CCNY), which is a minority and a Hispanic Serving Institution. This program will enable five Master of Engineering (M.Eng.) and one Ph.D. students to conduct cutting edge research in the Nuclear Thermal-hydraulics and Safety Research Laboratory at the Energy Institute located in the Grove School of Engineering at CCNY. The proposed program will provide minority students with the research experience, advanced knowledge and skills needed to pursue successful careers in the nuclear industry, National Laboratories and government agencies such as NRC and DOE.

The NROP scholars will conduct numerical and experimental investigations of thermal-hydraulics problems relevant to the design, operation and safety of current and future nuclear reactors. They will be American citizens or permanent residents from under-represented minority groups and selected based on their past academic performance, interests and motivation to pursue careers in the nuclear field. The NROP scholars will be recruited from CCNY and two other minority serving institutions in the New York City area, Medgar Evers College and Lehman College. In addition, every summer two NROP scholars will spend three months as interns at Brookhaven and Argonne National Laboratories to gain industrial-scale research experience.

All of the NROP scholars will be advised by the following Principal Investigators of this proposal who are faculty members in the Grove School of Engineering at City College of New York, as well as collaborators at Medgar Evers College and Lehman College.

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