

EXECUTIVE SUMMARY

Financial support is requested through the NRC Scholarship and Fellowship Education Grant program for the “**CCNY Nuclear Research Scholarship Program**” in the newly established Energy Institute at the City College of the City University of New York (CCNY). The Energy Institute focuses on advanced electricity generation and storage technologies, in particular, advanced nuclear reactors which will be constructed in the US over the next twenty to thirty years. As CCNY is a minority and a Hispanic Serving Institution, the proposed development of the nuclear education and research program will provide minority students with the knowledge, experience and skills needed to enter careers in the nuclear power industry. A total funding of \$200,000 over two years is requested to provide five scholarships each worth \$15,000 in stipend and \$5,000 in tuition fees to undergraduate students for two years. The students will conduct research in the Nuclear Thermal-hydraulics and Safety Research Laboratory at the Energy Institute supervised by faculty members of the Grove School of Engineering including Prof. Sanjoy Banerjee (Director of the Energy Institute, CUNY, E-mail: sanjoy.banerjee@ccny.cuny.edu), Prof. Masahiro Kawaji of the Departments of Mechanical and Chemical Engineering, CCNY E-mail: kawaji@ccny.cuny.edu), and Prof. Taehun Lee of the Mechanical Engineering Department at CCNY Email: thlee@ccny.cuny.edu). The undergraduate scholarship holders will be full-time engineering students enrolled in a Bachelor’s program maintaining a 3.0 GPA (on a 4.0 scale) overall and within major, and will conduct research during the academic year including the summer semester.