

**Executive Summary:**

In 2002, Prairie View A&M University (PVAMU), a Historically Black College and University (HBCU), initiated an effort to establish nuclear engineering research and curriculum option. In the last few years, with the funding from Department of Energy (DOE) and other sources, the Roy G. Perry College of Engineering (CoE) offered several courses in nuclear engineering with much success. To continue progress, for the NRC scholarship grant, we propose to recruit 6 juniors and 6 seniors the first year, and in the second year recruit 4 additional seniors for the Prairie View Scholarship Program (PVSP). We plan to offer at least one nuclear course each year and organize seminars and fieldtrips to nuclear sites for scholarship recipients as well as other interested students. We will recruit at least 10 students in addition to the scholarship recipients by offering them a \$400 tuition voucher. Thus, through this approach we intend to engage 25-30 students to the nuclear field in addition to the 16 scholarship recipients. A strong mentoring program with faculty as well as a novel “e-mentoring” program with professionals from industry will be made available to students. We will also identify opportunities for the students to participate in a paid 10-week internship during summer to provide hands on experience in the nuclear field. Implementation of this scholarship program will provide a unique mechanism to tap into as well as influence talented women and minority students to pursue viable careers with NRC and other federal agencies and nuclear industry.

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