

Develop and Conduct Teaching Workshops for Faculty at Historically Black Colleges and Universities/Minority Serving Institutions in Nuclear Engineering and Health Physics

Executive Summary

The objective of this proposed project is to develop and conduct teaching and hands-on training workshops for education of teachers at minority institutions in nuclear engineering and health physics. The topics will include broad areas associated with nuclear energy, including reactor design, health physics, fuel cycles, safety, security, waste management and environmental protection.

The proposed project will utilize the modules developed by these institutions and the expertise of some of the leaders in the field, available at CRESPI institutions and beyond, to conduct workshops and hands-on training for STEM teachers at HBCUs/MSIs in various facets of nuclear energy. This "Teach the Teacher" concept will have a multiplying effect as these teachers go back to their institutions and introduce elective courses, modify existing core courses, and, in some cases, introduce minors and even a major in nuclear engineering. The students will be introduced and more prepared to take on career opportunities in nuclear energy fields, thus addressing a critical manpower shortage looming on the horizon, and help diversify the workforce in the process.

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