Increasing the Recruitment and Retention of Underrepresented Students in STEM majors through Nuclear Safety Research

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The project's total funding request: $1,187,168 (for a 4 year period)

Project Objectives:
Researchers are using video motion detection (VMD) in various applications such as security, traffic safety, and autism research. The focus of this research is to develop a method to adapt and apply this technology to develop an instrument capable of measuring the effects of long term exposure to low level radiation upon psycho-physiological functions in those exposed and their offspring. The function of the research is to investigate the adaptation of the instrument to this new field of inquiry. Funding of this grant will allow faculty at Norfolk State University, a minority serving Historically Black University, to satisfy four parallel objectives with associated benefits.

- An increase in the number of underrepresented students and faculty exposed to research in the field of Nuclear Safety.
- Development of critical thinking and problem solving skills in students through Nuclear Safety research.
- Development of a measurement instrument and test procedure for analyzing the effects of long term exposure to low level radiation.
- Greater recruitment and retention of underrepresented students and faculty in STEM majors.