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Title: Nuclear Science and Security Consortium Overview

Abstract:

The Nuclear Science and Security Consortium (NSSC) is a multi-institution initiative creating a pipeline of new talent and generating new concepts and technologies in basic and applied nuclear science in collaboration with the national laboratories. Originally established in 2011, the NSSC was recently awarded an additional \$25 million grant for a third performance period to continue this cutting-edge research and development and expand partnerships to a total of 11 universities. By recruiting, training, and educating talented students at top-tier academic institutions and via strong collaborations with five national laboratories, the NSSC has deeply engaged in research to support the nonproliferation and nuclear security mission. Fundamentals from nuclear physics, radiochemistry, nuclear engineering, and nuclear instrumentation are being applied to yield new ideas, technologies, and personnel with the integrated capabilities required for the nuclear security mission.