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## **Establishing a Hot Cell Capability at the PULSTAR Reactor**

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**Program:** Infrastructure

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**ABSTRACT:**

The objective of this project is to establish hot cell capability at the PULSTAR reactor of North Carolina State University (NCSU). The development of such capabilities will result in: (1) improved support, and enhanced efficiency and safety for all irradiation and post irradiation examination (PIE) activities including experiments and measurements related to Nuclear Science User Facilities (NSUF) projects that are currently ongoing and/or are expected in the foreseen future, and (2) expand the portfolio of PULSTAR activities to include isotope production to support the needs of various organizations at the local and national levels. The proposed infrastructure upgrade will be integrated into a very active nuclear engineering education and research environment. Consequently, it is expected to have direct impact on the PULSTAR reactor and to enhance its safe utilization by various user groups including academic faculty, staff and students, and engineers and researchers nationally and internationally.