PART A*:* EXECUTIVE SUMMARY
Nuclear Safety Applications of Autonomous Robots

CSU Dominguez Hills (CSUDH) requests $508,966 to establish a research initiative related to the use of ground-based, aerial and underwater robots in nuclear safety applications. Through mentor-protégé partnerships with the Naval Postgraduate School and the University of Southern California, CSUDH will apply methodologies originally developed for the implementation of robotic agents in homeland defense and security applications to problems in the nuclear safety domain.

The primary objective of the proposed project is to increase the number of CSUDH students and faculty, especially those from under-represented groups, with research training related to the use of robots in nuclear energy applications. It is anticipated that this project will result in the development of analytic and simulation tools that facilitate autonomy for robotic agents when acting alone, as members of robotic teams or in collaboration with human operators.

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