

NuSec UK - US Collaboration Grant Awards @ 10th May 2023

University	Awards	Project	NNSA Consortia/ DTRA URA/ UK	US Collaborator
Oxford	Conference	Collaboration with the LLNL AI Inertial Confinement Fusion group	ETI	Lawrence Livermore National Laboratory (LLNL)
Glasgow	PDRA and Research Visit	Develop a Geant 4 simulation framework to optimize a multimodal detector for tomographic imaging of used nuclear fuel casks	ETI	Colorado School of Mines
Surrey	PDRA and Research Visit	Development of Perovskite Scintillators for Nuclear Security Inspection	ETI	Georgia Tech
Bristol	PDRA and Research Visit	Enhancing 'Big-Data' Visualisation and Presentation in Data-Rich Nuclear Security Scenarios	ETI	Pacific Northwest National Laboratory (PNNL)
Bristol	Research Visit	Identifying Opportunities for UK-US Collaborations in Micro-Particle Nuclear Forensics	ETI	Pacific Northwest National Laboratory
Surrey	Undergraduate Summer Project	Isomer Cross Sections	UK	AWE
Surrey	PDRA and Research Visit	Large area CsPbBr ₃ Perovskite detectors for Nuclear Security Applications	IRM	Applied Radiation Laboratory at Penn State University.
Bristol	PDRA	Machine Learning Integrated Quadrant Gamma Detectors for Enhanced Safeguards, Security and Inspection	NSSC	University of Berkeley California
York	PDRA and Research Visit	Neutron and X-ray imaging in extreme environments	MTV	University of Michigan
York	PDRA	Neutron Detector Development Using Novel ³ He Encapsulated Foils	UK	N/A
Manchester	PDRA, Research Visit and Travel	Novel imaging technique for thermal and slow neutrons using a single photon fast optical camera	MTV	Brookhaven National Laboratory
Bristol	Research Visit	Optimisation of drone-based aerial mapping sensors for distinguishing NORM from anthropogenic gamma sources	NSSC	University of Nevada & US Govt. Dept. of Energy
Cambridge	Research Visit	Pulsed Neutron-Gamma Die Away Experiments for ^{Cl-35} Nuclear Data Validation	NSSC	University of California Berkeley (UCB) and Lawrence Livermore National Laboratory (LLNL)
Kings College London	Travel	Water-based quantum dots detector for near-field nuclear fission reactor monitoring detector	MTV	University of Michigan