

NuSec Website Collaboration Research Grants Summary @ 7th June 2023

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