Daphne Jackson Fellowship opportunity
funded by the UK Health Security Agency (UKHSA)

Project details for a three year part-time (0.5 FTE) Daphne Jackson Fellowship at the UK Health Security Agency.

The fellowship is intended for individuals returning to research aligned with the fields of radiation protection, medical physics and biological effects of radiation in the wider context of nuclear medicine, radio-theranostics and molecular radiotherapy.

The successful candidate will be integral to a research project which aims to investigate blood-based biomarkers related to DNA and chromosomal damage as surrogate metrics of radiation absorbed dose before and after radionuclide therapy. These metrics will be assessed for correlation to therapy outcomes, types of radionuclide emissions and estimated radiation dose exposure (from imaging and radionuclide whole-body retention data). Access to patient groups receiving therapy with ^{131}I (benign & malignant thyroid disease), ^{177}Lu (for neuro-endocrine tumours) and ^{223}Ra (metastatic castration resistant prostate cancer) will be facilitated by the clinical molecular radiotherapy service at one of the associated host institutions, offering access to a range of available radionuclides.

This project will be part of the Health Protection Research Unit (HPRU) in Radiation Threats and Hazards at Imperial College London. The HPRUs are the National Institute for Health and Care Research (NIHR)'s flagship research partnerships between Universities and UKHSA, focused on the highest priority challenges in public health. From 1st April 2025, HPRU Radiation Threats and Hazards will seek to advance understanding of ionising radiation and health and delivery direct impact on policy to improve the long term health of the nation.

The work is intended to be based mostly at the King's College London (KCL) School of Biomedical Engineering & Imaging Sciences Rayne Institute, St. Thomas' Hospital London where a number of lab facilities are provided and shared among a number of research groups, with some occasional work likely done at Nuclear Medicine department, Guy's Hospital London where the theranostics patient services are based;

Some preparatory work is likely to involve aspects such as supporting ethics approval, preparation of documents and analysis of results which may be potentially suitable for working-from-home but key aspects of the project involve lab based work on the premises. See details below:

Rayne Institute, School of Biomedical Engineering & Imaging Sciences
King's College London
4th Floor, Lambeth Wing
St. Thomas' Hospital
Westminster Bridge Road
London SE1 7EH
Website: https://www.kcl.ac.uk/bmeis/about-us

Nuclear Medicine department
ground floor, Borough Wing
Guy's Hospital
Great Maze Pond

London SE1 9RT
Website: https://www.guysandstthomas.nhs.uk/our-services/nuclear-medicine

Working for UKHSA
At UKHSA, the role will be based within the Radiation Effects Department of UKHSA's Radiation, Chemical, Climate and Environmental Hazards Directorate, in the Radiation Protection Sciences Division.

We pride ourselves as being an employer of choice, where Everyone Matters promoting equality of opportunity to actively encourage applications from everyone, including groups currently underrepresented in our workforce. UKHSA ethos is to be an inclusive organisation for all our staff and stakeholders. To create, nurture and sustain an inclusive culture, where differences drive innovative solutions to meet the needs of our workforce and wider communities. We do this through celebrating and protecting differences by removing barriers and promoting equity and equality of opportunity for all. Visit our careers site for more information https://gov.uk/ukhsa/careers

Daphne Jackson Fellowships
Daphne Jackson Fellowships are unique. They offer the opportunity to return to a career in research after a break of at least two years for family, caring or health reasons.

Our fellowships enable people to overcome the challenges of returning to a career as a researcher and ensure that skills, talent, training and career promise are not lost.

We support people through our application process for a fellowship that combines a personalised programme of retraining and mentorship. Our fellows gain the confidence and skills they need to succeed and enable them to generate novel, high-quality research findings.

For further details about the eligibility criteria and application process, please visit www.daphnejackson.org. For further information before submitting an application please contact the Daphne Jackson Trust office on 01483 689166 or via email at djmft@surrey.ac.uk

For further information about this funded fellowship opportunity please contact Professor Liz Ainsbury, Head of UKHSA Radiation Effects Department (liz.ainsbury@ukhsa.gov.uk) and Dr Lefteris Livieratos, Reader (Adjunct) in Medical Physics, King's College London (Lefteris.Livieratos@kcl.ac.uk).

How to apply
To be considered for this opportunity, please complete the CV, personal details and personal statement forms on the Daphne Jackson Trust website: Apply here

Please outline your area of research interest and please identify the department within which you would like to work, including the name and contact details of a potential supervisor who is willing to support your application.

Email your submission to the Daphne Jackson Trust office at djmft@surrey.ac.uk stating clearly, UK Health Security Agency Fellowship Application.