

Fully Funded PhD Studentship

'Investigating the effects of stress on the corrosion of metallic uranium'

Project Description:

Supported by Sellafield Ltd., this exciting and fully funded PhD studentship will seek to extend the successful work previously undertaken at the University of Bristol to improve our understanding of the expected behaviour of irradiated uranium fuel materials in nuclear storage facilities. Specifically, the project will examine the role of stress corrosion for the uranium system, determining how it influences the behaviour and rates of degradation. In this hands-on experimental study you will be using cutting edge materials analysis techniques and laboratories available at the Interface Analysis Centre in Bristol, a leading international centre for uranium research. You will work alongside academics and industrial collaborators, with visits and trial experiments at partners sites across the UK.

Application and Funding:

This project is funded by ESPRC and Sellafield. The studentship provides funding for tuition fees, stipend (standard UKRI rate), and a research training and support grant subject to eligibility.

If you are interested to apply for the position, please get in touch with Ross Springell (phrss@bristol.ac.uk) or Tom Scott (t.b.scott@bristol.ac.uk). A formal application needs to be submitted through the University of Bristol online application: <http://www.bristol.ac.uk/study/postgraduate/apply/>.

Please choose "Physics PhD" as course, and mention "Sellafield uranium corrosion" as the corresponding studentship advert. Applications should include a Curriculum Vitae, contact information for two potential referees and a short letter outlining the applicant's scientific interests, suitability and motivation to work on the topic.

Deadline and Further Information:

This studentship will commence in September 2022. Applications will close when a suitable candidate is found. Alongside completing the online application form, applicants are required to upload a short CV.