



**Postdoctoral research fellow position in experimental nuclear physics stationed at GSI, Darmstadt**

The University of Edinburgh, UK, and the GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany, are inviting applications for a joint position of a postdoctoral research associate in experimental nuclear physics. The joint position is centered around the work of the Edinburgh Nuclear Physics and GSI FRS groups using rare isotope beams.

Your main role will be to support and develop the experimental program at the Fragment Separator (FRS) at GSI for the stopped beam experiments focussing on decay spectroscopy, via the Edinburgh AIDA detector setup, and/or the mass measurements, via the FRS Ion Catcher experiment. As such, we are seeking applications from excellent researchers holding a recent Ph.D. degree, or about to obtain a PhD, in nuclear science with previous experience in either in-flight separation methods, decay spectroscopy or low energy ion trapping.

The successful candidate will be expected to assume a leading role in performing and analysing experiments at the FRS as well as participating in further developments of the experimental facilities. Specific responsibilities and work will be adjusted for the incumbent's interests and experience; further detailed below.

Attribute	Essential	Desirable
<b>Education, Qualifications &amp; Training</b>	<ul style="list-style-type: none"> <li>PhD in experimental Nuclear Physics/Nuclear Astrophysics (or soon to submit).</li> </ul>	
<b>Knowledge &amp; Experience</b>	<ul style="list-style-type: none"> <li>Experimental work in Nuclear Physics / Astrophysics.</li> <li>Demonstrated quality of research and performance.</li> <li>Knowledge of Nuclear Physics and/or Nuclear Astrophysics.</li> <li>Capable of exercising individual scientific and technical initiative while working well within large international teams.</li> <li>Very good communication skills.</li> <li>Analysis techniques for large Nuclear Physics data sets using the ROOT framework.</li> <li>Understanding of principles and operation of silicon detectors, electronics and analysis.</li> </ul> <p style="text-align: center;"><b>Or</b></p> <ul style="list-style-type: none"> <li>Experience in low energy ion trapping and manipulation techniques using e.g. radiofrequency (RFQ) ion traps.</li> </ul>	<ul style="list-style-type: none"> <li>Experience with the In-Flight production and separation scheme and commonly used higher energy PID detectors (TPC, Scintillators, Ionisation chambers, etc)</li> <li>Experience with the GSI ROOT implementation Go4.</li> <li>Experience with double-sided silicon strip detectors (DSSD) detector systems.</li> </ul> <p style="text-align: center;"><b>Or</b></p> <ul style="list-style-type: none"> <li>Experience in mass spectrometry and related techniques.</li> </ul>



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GSI Helmholtzzentrum für Schwerionenforschung GmbH

The successful candidate will be stationed primarily at GSI, Darmstadt. This opening is for a fixed-term appointment for 24 months, funded via a tax free GSI-fellowship (stipend) at €2250,- per month.

For informal enquiries please contact M.P.Reiter ([mreiter@ed.ac.uk](mailto:mreiter@ed.ac.uk)) or C.Scheidenberger ([C.Scheidenberger@GSI.DE](mailto:C.Scheidenberger@GSI.DE)).

As a valued member of our team you can expect an exciting, positive, creative, challenging and rewarding place to work at, at one of the world's leading nuclear physics accelerator laboratories. We give you support, nurture your talent and reward success. The University of Edinburgh holds a Silver Athena SWAN award in recognition of our commitment to advance gender equality in higher education. We are members of the Race Equality Charter and we are also Stonewall Scotland Diversity Champions, actively promoting LGBT equality. As such, women are especially encouraged to apply for the position. Handicapped persons will be preferentially considered when equally qualified.

We invite interested candidates to submit their application with a curriculum vitae including a list of publications, a cover letter including a brief statement on research experience and interests together with names of three references, who will be willing to provide letters of recommendation.

The complete application should be sent by email to:  
Moritz Pascal Reiter, School of Physics & Astronomy, University of Edinburgh  
Email: [mreiter@ed.ac.uk](mailto:mreiter@ed.ac.uk), Subject line: ED-GSI PDRA.

Review of applications will begin from May 14<sup>th</sup> 2021, but may continue until position filled.