

Postdoc position Experimental nuclear Physics (1.0 FTE) (219416)

Organisation

The University of Groningen has an international reputation as a dynamic and innovative centre of higher education offering high-quality teaching and research. Balanced study and career paths in a wide variety of disciplines encourage the 31,000 students and researchers to develop their own individual talents. Belonging to the best research universities in Europe and joining forces with prestigious partner universities and networks, we are truly an international place of knowledge.

Job description

The project NEXT – Neutron-rich EXotic nuclei produced in multi-nucleon Transfer reactions recently received funding through an ERC starting grant. PI of the grant is Julia Even, Assistant Professor at the University of Groningen. The project will be embedded within the Van Swinderen Institute for Particle Physics and Gravity (VSI) at the University of Groningen.

Within the project, a new solenoid-based spectrometer for multi-nucleon transfer reactions coupled to a MultiReflection Time-of-Flight MassSpectrometer (MR ToF MS) will be designed and build in order to study neutron-rich heavy nuclei. The new setup will be installed at the AGOR cyclotron facility in Groningen. AGOR is a superconducting K=600 MeV cyclotron for the acceleration of both light and heavy ions.

The aims of the project are the discovery of new isotopes in the transfermium region and to study the fission half-lives of these isotopes. Furthermore, NEXT will give access to the masses of N=126 nuclei and transfermium isotopes.

For the project, we are currently looking for an enthusiastic Postdoc researcher. You should have an interest in technical development and building new experimental equipment. Previous experience with electromagnetic separators, ion guide techniques and/ or precision mass spectrometry will be considered as an advantage.

Qualifications

You have interest and experience in setting up a new experiment. Following skills will be beneficial for the position:

- PhD in experimental nuclear or atomic physics
- experience in ion guide techniques, electromagnetic separators and/or mass spectrometry
- knowledge of SIMION or COMSOL, knowledge of AutoCAD (or any other technical drawing software) will be considered an advantage
- good interpersonal skills,
- ability to work in a team as well as independently
- good communication skills
- ability to communicate verbally and in written form in English.

Conditions of employment

We offer you in accordance with the Collective Labour Agreement for Dutch Universities:

- a salary of € 3,255 (salary scale 10) gross per month in the first year, up to a maximum of € 4,274 gross per month for a full-time position
- a full-time position (38 hours per week) for 2.5 years
- a holiday allowance of 8% gross annual income
- an 8.3% year-end bonus
- minimum of 29 holidays and additional 12 holidays in case of full-time employment
- excellent secondary benefits, including a pension scheme and flexible employment conditions.

Do you meet our qualification criteria? If yes, your application should include:

- cover letter
- curriculum vitae
- summary of the PhD thesis and previous projects
- contact information of at least two academic references.

You can submit your application until 25 August 11:59p.m. / before 26 August 2019 Dutch local time (CET) by means of the application form (click on "Apply" below on the advertisement on the [university website](https://www.rug.nl/about-us/work-with-us/job-opportunities/?details=00347-02S00078WP) - <https://www.rug.nl/about-us/work-with-us/job-opportunities/?details=00347-02S00078WP>). Candidates are expected to start in October 2019. The positions will be open until filled by suited candidates.

We are an equal opportunity employer and value diversity at our University. We are committed to building a diverse faculty so you are encouraged to apply. Our selection procedure follows the guidelines of the Recruitment

code (NVP), <https://nvp-plaza.nl/download/?id=7714> and European Commission's European Code of Conduct for recruitment of researchers, <https://euraxess.ec.europa.eu/jobs/charter/code>

Unsolicited marketing is not appreciated.

Information

For information you can contact:

- Julia Even, j.even@rug.nl

Please do not use the e-mail address(es) above for applications.