

Postdoctoral research position at the University of Jyväskylä, Finland

Our naturally beautiful campus in the Jyväskylä city centre is home to a dynamic multidisciplinary research university – a modern, open and collaborative community of 2,500 experts and 15,000 students seeking answers to the pivotal questions of today and tomorrow. It was here, in 1863, that Finnish-language teacher education began. Since then, the University of Jyväskylä has been serving the future. The dialogue between research, education and society is our driving force. We cherish this balance of research and education, and work to promote open thinking. We kindle the skills, knowledge and passion to live wisely for the best of humanity.

The Department of Physics is currently seeking to recruit staff to the position of

Postdoctoral Researcher in Nuclear Spectroscopy, from 1 April 2019 or as soon as possible thereafter until 31 August 2021.

The Department of Physics is an internationally recognized research and teaching unit. The main research areas in the Department are particle physics, material physics, and nuclear and accelerator-based physics. The research in particle physics is carried out in cosmology, neutrino physics, physics of ultra-relativistic heavy ion collisions, and Beyond the Standard Model physics. In condensed matter physics experimental research of nanophysics and nanoelectronics (especially low temperature physics in nano- and microstructures as well as molecular electronics) with their applications are carried out as well as research of porous and disordered materials and crystal defects. Themes of theoretical and computational material physics are atomic clusters, metal nanoparticles, quantum dots, nanowires, catalytic surfaces and other nanoscale structures, soft matter and statistical physics by using many-body theory and numerical modeling. In nuclear and accelerator based physics in the Accelerator Laboratory the research focuses on studies of atomic nuclei and nuclear matter under extreme conditions, with many links to material physics and applied research. Furthermore the Department is contributing to the ALICE and ISOLDE experiments in CERN as well as Facility for Antiproton and Ion Research in GSI and FAIR Laboratories. The focus of the research in theoretical nuclear physics is on nuclear models and their applications.

The successful candidate will join the project “Structure of intruder states in heavy nuclei” and will contribute in all activities of the Nuclear Spectroscopy group. The main part of his/her work will be dedicated to feasibility studies and development of transfer reaction techniques in the investigation of the intruder states in the neutron-deficient lead region. Experiments will be conducted using the MINIBALL and ISS spectrometers employing radioactive heavy-ion beams at HIE-ISOLDE, CERN. Complementary experiments will be carried out at JYFL. This project is funded by the Academy of Finland and is conducted in collaboration with the University of Liverpool, University of Manchester, STFC Daresbury (all UK), Katholieke Universiteit Leuven (Belgium) and Technische Universität Darmstadt (Germany).

The successful candidate for the position will work in the Nuclear Spectroscopy Group of the University of Jyväskylä. Experiments carried out by the Nuclear Spectroscopy Group occupy one third of the beam time available at the Accelerator Laboratory of Jyväskylä, most of them dedicated to studies of the structure of neutron-deficient exotic nuclei and of super-heavy elements.

The duties and qualification requirements for the position of the Postdoctoral researcher are stipulated by the University of Jyväskylä Regulations. The selected person is required to have a full command of Finnish language. According to Finnish law, a non-native university teaching and research staff member can be granted an exemption from the requirement of Finnish language proficiency. A good English language skill is regarded as a merit.

Candidates should have a PhD in experimental nuclear physics. Experience in gamma-ray and/or charged particle spectroscopy, radioactive beams, transfer reactions and simulations are considered beneficial. Willingness to travel is required.

The job-specific salary component of a postdoctoral researcher is based on the job demands level 5-6 (2903,61 €/month – 3386,00 €/month) according to the salary system concerning teaching and research staff at universities. In addition, a personal performance-based salary component amounting to 6-50 % of the job-specific salary component is also paid.

A trial period of six months will be used when the position is first filled.

For further information, please contact Senior Researcher Janne Pakarinen, janne.pakarinen@jyu.fi, tel: +358 40 805 4900.

Please attach the following documents to the online application form:

1. Curriculum vitae (CV), composed according to good scientific practice and considering, when possible, the template for a researcher's curriculum vitae by the Finnish Advisory Board on Research Integrity. See <http://www.tenk.fi/en>.
2. Application
3. Numbered list of publications covering all the scientific and other publications of the applicant

Please submit your application at the latest on 28.2.2019 using the online application form at:

https://rekry.saima.fi/certiahome/open_job_view.html?did=5600&jc=12&id=00006746&lang=fi