

At the **Faculty of Nuclear Science and Physical Engineering**, Department of Materials, group of Prof. Miroslav Karlík, we have a job opportunity for a

**Research Assistant**

**(Postdoc),**

with the specialty of transmission electron microscopy and sample preparation using broad ion beam methods. The position is offered for a period of two years, starting at January 1st, 2018.

Our research is within the Czech Science Foundation project 17-17921S “Radiation damage tolerant nanomaterials: design of interfaces with self-healing properties”, led by Prof. Tomáš Polcar. Incoherent interfaces will be explored to design and produce nanoscale metallic multilayer composites (NMMCs) with high resistance to radiation damage. Transmission electron microscopy is used for characterization of NMMCs of as prepared and ion irradiated Zr/Nb multilayers [M. Callisti, T. Polcar, Acta Mater. 124 (2017) 247-260] and other multilayered materials.

The Department of Materials, group of Prof. Karlík, has an access to TEM laboratory in the Department of Physics of Materials, Faculty of Mathematics and Physics, which is in walking distance. The equipment available is: JEOL 2000FX with EDS Bruker, JEOL 2200FS with EDS Centurion, PIPS 691 and Leica Ion Polishing systems.

Candidates should hold an excellent University degree in natural sciences (e.g. physics, material sciences, or chemistry) as well as a PhD. Experience in the following topics is necessary: (scanning) transmission electron microscopy; sample preparation for transmission electron microscopy using broad ion beams. Excellent language skills in English, flexibility and ability for teamwork are required.

The remuneration will be 40 000 CZK/month (approx. 1500 EUR, a good salary for the Czech Republic with quite low living costs).

Applicants are requested to send their application materials (a motivation letter, CV, list of publications and name of a distinguished scientist with whom the application can be consulted) to Prof. Miroslav Karlík, E-mail: Miroslav.Karlik@fjfi.cvut.cz.