



Institute of Physics of the Polish Academy of Sciences Scholarship for a PhD Student



Job ID: #JOB10/2017

Job Description

Job Title: PhD student

Job Summary:

The PhD student will be involved in research in the frame of the project "The anisotropy of 3D lattice strain distribution and plastic relaxation in heteronanostructures investigated by tomographic electron diffraction" devoted to investigation of stress relaxation phenomena by advance transmission electron microscopy.

Job Description:

The PhD student will participate in research devoted to development and refining of the methods of determination of the local deformation of the crystalline lattice using state-of-art aberration corrected TEM microscopes. The duties of the PhD student will consist of the use and improve existing scripts for control the microscope during acquisition of HRTEM images and diffraction patterns series. The acquired data will be processed to reconstruct 3D distortion field in elastically strained or plastically relaxed hetero-nanowires (core-shell) fabricated with semiconducting compounds having different lattice constant.

Profile of a candidate for the position:

- completed master's degree in physics or related fields, after 2015
- good spoken and written English
- ability to work in a team
- An additional advantage will be programming skills in one of C ++, Python Matlab, Matematica or related programming languages

Main research field: Physics **Sub Research Field:** Solid state physics

Career Stage: Early stage researcher or 0-4 yrs (Post-graduate)

Research Profile ([details](#)): First Stage Researcher (R1)

Type of Contract: Temporary for the 30 months term **Status:** Full-time

Salary: 3000 PLN per month (untaxed scholarship).

Contact

More information can be obtained from
prof. Sławomir Kret (e-mail: kret@ifpan.edu.pl , phone +48 22 116 3382).

Application details

Application deadline: June 20, 2016. Later applications may also be considered.

Required materials:

- Curriculum Vitae
- List of publications

All materials should be submitted in electronic form to the address: jobs@ifpan.edu.pl with Job ID in the subject.