



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



Job ID: #JOB42/2017

Job Description

Job Title: PhD student in Physics of X-Rays and Electron Microscopy

Job Summary:

Experimental investigation of local structure and properties of semiconductor hetero-nanocrystals by advance Transmission Electron Microscopy (TEM) methods.

Job Description:

The PhD student will participate in research devoted to determination of the local deformation of the crystalline lattice of individual strained semiconductor hetero-nanowires and relationships between their atomic structure and properties using the advance electron microscopy techniques as nano-beam electron diffraction (NBD), HRTEM, STEM, EELS, EDXS. Investigation will be performed in the frame of NCN grant UMO-2016/21/B/ST5/03411. The performed work will be the basis for doctoral thesis.

Profile of a candidate for the position:

- MSc university degree in one of the following disciplines: in physics, applied mathematics, material science, computational physics, nanotechnology, physical chemistry or related fields, obtained after 2013,
- high motivation for scientific work (publications, conference presentations or other achievements are highly welcome),
- ability to work in a team ,
- analytical thinking, diligence in work,
- an additional advantage will be programming skills in one of C ++, Python Matlab, Matematica or related programming languages,
- good spoken and written English.

The successful candidate will be participate in International PhD Studies at IP PAS

http://info.ifpan.edu.pl/msdifpan/Studium/index_en.htm

More information about laboratory :

<http://www.wkraj.pl/index.php?page=vr&start=50464#/50464/0>

<http://www.ifpan.edu.pl/SL-1/index.html>

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 month term

Status: Full-time

Salary: 3000 PLN per month (untaxed scholarship).

Contact

More information can be obtained from

dr hab.Sławomir Kret (e-mail: kret@ifpan.edu.pl , tel. (48) 22 116 3382
https://www.researchgate.net/profile/Slawomir_Kret).

Application details

Application deadline: December 22 2017. Later applications may also be considered.

Required materials:

- Curriculum Vitae
- List of publications
, conference presentations and other achievements (if any)
- Letter of motivation
- Transcript of record from undergraduate studies
- Reference contact person(s) (with phone number(s) and e-mail address(es))

The top candidat will be granted for position. In case of resignation of top ranked candidat, the next person from the ranking list can be selected. However, we reserve the right to cancel the competition in this case .

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