



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



Job ID: #JOB29/2017

Job Description

Job Title: PhD student in crystallography and electron microscopy of semiconductor nanocrystals

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 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: November 20 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))

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