



Institute of Physics of the Polish Academy of Sciences
OPEN POSITION



Job ID: #JOB36/2018

Job Description

Job Title: Position of Adjunct in single crystal and high-pressure X-ray diffraction methods in solid state science

Job Summary: (max 1000 characters, multi-line possible)

The employed winner of the competition ("Employee") will carry out X-ray diffraction experiments using X-ray single crystal diffraction methods at ambient and non-ambient pressures. The research will concern the structural studies of various crystalline materials. Some of them may include those produced in IFPAN technological laboratories, for which the studies at ambient and non-ambient pressure conditions are required. The candidate must have experience in conducting research in the field of solid state physics and/or chemistry, and it is particularly desirable to have experience in structural research using single-crystal X-ray diffraction methods, including those applicable at high pressures. Experience in other methods of studies of crystal composition and structure will be considered as an advantage.

Job Description:

The recruited winner ("the Employee") of the competition will carry out the X-ray diffraction experiments in the X-ray Laboratory of SL1 Division of the Institute of Physics of the Polish Academy of Sciences using methods of solving the crystal structure through single-crystal X-ray diffraction, and conduct a related research on high-pressure diffraction. These studies will be carried out within scientific projects concerning the structure of semiconductors, superconductors as well as optoelectronic and magnetic single crystals, mostly for samples prepared in technological laboratories of IFPAN.

The candidate must have a documented experience in conducting research in the field of solid state physics and/or chemistry, and it is particularly desirable to have experience in structural research at high pressure X-ray diffraction methods applicable for single crystals. We expect from the candidate:

- (a) knowledge of experimental techniques in the field of X-ray diffraction and knowledge of software used to calculate and visualize the results of determining the structure of crystals, such as SHELX,
- (b) engagement in conducting measurements, their interpretation with care for taking into account the current literature data, and writing scientific papers,
- (c) initiatives of the Employee in the search for research topics and organizational skills are desirable,
- (d) activity in obtaining funds for research.
- (e) experience with synchrotron radiation experiments is desirable.

The candidate must have a PhD degree in physical sciences obtained in the field of physics, chemistry, materials or a related field. The candidate is required to be fluent in speaking and writing in English so that he/she can read and write scientific papers and short communications. Ability to work in a group is necessary.

It is allowed to consider applications of candidates who have written a doctoral thesis, whose defense will take place before 1st October 2018.

Main research field: Physics

Sub Research Field: Solid state physics

Career Stage: Experienced researcher or 4-10 yrs (Post-Doc)

Research Profile: First Stage Researcher (R1)

Type of Contract: Temporary for the 36 months term

Status: Full-time

Salary: 3100 PLN per month (before taxes).

Contact

More information can be obtained from Prof. Dr. hab. Wojciech Paszkowicz (e-mail: paszk@ifpan.edu.pl, phone +48 221163301), <https://scholar.google.pl/citations?user=FYofYdAAAAAJ&hl=pl>

Application details

Application deadline: July 31, 2018. Later application may be considered.

Required materials:

- Curriculum Vitae
- List of publications (published/accepted research papers and (optionally) list of conference presentations)
- Motivation letter (in Polish or English) related to proposed specific topic of research proving the candidate's basic knowledge of topics related to crystallography and materials science
- PhD diploma
- Declaration on the ability to take up employment within a period of not more than 4 months after the announcement of the result of the competition.
- Recommendation letters from two scientists knowing the candidate's achievements, with reference persons with phone numbers and e-mail addresses

The top candidate will be granted for position. In case of resignation of top ranked candidate, the next person from the ranking list can be selected. We reserve the right to cancel the competition without giving a reason.

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