



Job ID: #JOB 10/2022

## Job Description

**Job Title: Assistant or assistant professor specialized in methods of X-ray diffraction applied for crystals and thin film systems at ambient, high-temperature and high-pressure X-ray diffraction methods in solid state physics**

### Job Summary:

The employee will work in the applied crystallography group. They will carry out experimental research of multicomponent oxides applicable in optoelectronics, using powder X-ray diffraction methods at ambient and non-ambient temperatures and pressures. Studies of defect structure can be conducted using the available equipment. If necessary, other diffraction measurement techniques will also be used. The research will concern the structure of various crystalline materials. Some of the crystals intended for temperature and pressure tests will come from Institute of Physics PAS technological laboratories. If a holder of a doctoral degree is employed, they will have the opportunity to conduct research leading to a habilitation. Research experience in the fields of physics, solid state chemistry or materials science is expected of the candidate. Experience in X-ray diffraction structural studies will be considered an additional asset in the competition. Conducting own research projects will be possible.

### Job Description:

The recruited person will carry out the diffraction experiments in the SL1 X-ray laboratory at Division of the Institute of Physics of the Polish Academy of Sciences, for multicomponent oxides applicable in optoelectronics. Interpretation of the results is planned based on the Rietveld method, refinement of the crystal structure. Part of the research will concern diffraction experiments at high pressures and temperatures and may include studies of defect structure of single crystals or films.. There will be also additional opportunity for studies of structural properties of semiconductors, superconductors, magnetic and optoelectronic materials, mostly for samples made at IFPAN.

The candidate must have proven experience in conducting research in solid state physics or chemistry or in materials science. Experience in X-ray diffraction and / or neutron diffraction will be considered an additional advantage.

We expect the candidate to:

- (a) Quickly familiarize with the experimental techniques used in the field of X-ray diffraction and the software used in structure determination and visualization of results.
- (b) Be engaged in carrying out measurements, in their careful interpretation taking into account information from the scientific literature, and in the preparation of publications.
- (c) Display initiatives in search of new research topics; organizational and interpersonal skills are welcome.
- (d) Be active in applying for research funding.

The candidate must have a PhD degree in physical, chemical, materials or related sciences and knowledge of the English language allowing to read and write research papers and short communications. Predisposition to work in a group is necessary.

Applications from candidates who have prepared a doctoral thesis, the defense of which will take place no later than May 7th, 2022, may also be considered.

**Main research field:** Physics

**Sub Research Field:** Solid state physics

**Career Stage:** PhD holder or joint PhD/habilitation holder

**Research Profile** ([details](#)): Second Stage Researcher (R2)

**Type of Contract:** Temporary. (3 years with possibility of prolongation)

**Status:** Full time

**Salary:** From 4300 PLN for a PhD holder and from 4900 PLN per month for habilitation holder (before taxes), depending on qualifications.

## Contact

More information can be obtained from Prof. Dr. hab. Wojciech Paszkowicz (e-mail: [paszk@ifpan.edu.pl](mailto:paszk@ifpan.edu.pl), phone +48 221163301.)

## Application details

**Application deadline:** April 7th, 2022.

**Required materials (in Polish or English):**

- Curriculum Vitae
- List of publications
- Consent to process your personal data
- Motivation letter
- Certificate of obtaining a doctorate issued by an institution recognised in Poland. In the case of institutions not recognised in Poland, the doctorate will have to be nostrified before employment.
- Contact details to two scientists knowing the candidate's achievements who agree to write reference letters.

All materials should be submitted in electronic form to the address: [rekrutacja@ifpan.edu.pl](mailto:rekrutacja@ifpan.edu.pl) with Job ID in the subject.

## DATA PROCESSING UNDER CONSENT FOR THE PURPOSES OF RECRUITMENT

Under Art. 13 sections 1 and 2 of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Resolution), EU OJ L 119 of 04.05.2016, page 1, as amended, hereinafter referred to as "GDPR", we hereby inform as follows:

1. The Data Controller of the provided personal data is the Institute of Physics of the Polish Academy of Sciences, Al. Lotników 32/46, 02-668 Warsaw, phone (22) 116-2111, e-mail [director@ifpan.edu.pl](mailto:director@ifpan.edu.pl).
2. Contact details to the Data Protection Officer are as follows: e-mail [iodo@ifpan.edu.pl](mailto:iodo@ifpan.edu.pl)
3. Your personal data shall be processed for the purpose of carrying out the recruitment process for the position of ASSISTANT OR ASSISTANT PROF.
4. Processing of your personal data in scope of: full name, date of birth, correspondence address, information about education and course of past employment shall take place under Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code. In the scope in which you sent to us more personal data than indicated above, we process your data under the consent granted by you.
5. Your personal data shall be stored for 1 month from completion of the recruitment process. If you grant consent for processing of personal data for future recruitments, we shall process your data until withdrawal of the consent by you, however, no longer than for the period of 6 months from the day of submittal of the application by you.
6. Provision of the abovementioned data in the scope indicated above is a statutory requirement resulting from Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code, in the remaining scope it is voluntary. Failure to provide the data referred to in Art. 22<sup>1</sup> § 1 of the Act of 26 June 1974 - Labour Code precludes consideration of your candidacy for the offered position.
7. You have the right to access your personal data, to rectify them, erase them, restrict their processing.
8. You may submit a complaint to the Inspector General for the Protection of Personal Data.
9. You have the right to withdraw the consent to process your personal data in the scope in which they were provided at any time. Withdrawing the consent does not affect the lawfulness of processing carried out on the basis of consent before its withdrawal.

Consent content:

*I grant my consent to the Institute of Physics of the Polish Academy of Sciences to process my personal data contained in the sent recruitment documents for the purpose of carrying out the recruitment process for the position of ASSISTANT OR ASSISTANT PROF.*

If you want us to consider your candidacy also in the future recruitment processes, please grant the additional consent:

*I grant my consent to the Institute of Physics of the Polish Academy of Sciences to process my personal data contained in the sent recruitment documents in future recruitment processes taking place during 6 months from the day of appearance of this job advertisement.*