



**Job ID: #JOB 6/2022**

## Job Description

**Job Title: Post-doc in transmission electron microscopy**

**Job Summary:**

Transmission Electron Microscopy study of radial nanowire heterostructures implementing topological crystalline insulators, superconductors, ferro- and antiferromagnets

**Job Description:**

The post-doc will be involved in TEM-related research in the frame of the project “Radial nanowire heterostructures of topological crystalline insulators with superconductors, ferro- and antiferromagnets”.

The post-doc will directly operate a state of the art new generation, monochromated, aberration corrected transmission electron microscope (FEI Titan 80-300) at IP PAS.

Their tasks will be focused on research methodology and its application to determine relations between properties, structure, elemental and phase composition of radial nanowire (NW) heterostructures implementing topological crystalline insulators (TCI), ferromagnets (FM) and antiferromagnets (AFM).

Different state-of-the-art methods of Transmission Electron Microscopy will be applied for this purpose. Advanced interpretation of the experimental images of NW heterointerfaces will be performed with use of the electron microscopy image simulation software based on an atomistic model.

Close collaboration (including training) with a PhD student employed in the Project will also belong to the tasks of the post-doc, as well as a team-work with the IP PAS Electron Microscopy Group and support of other IP PAS young researchers in their activities related to TEM methods.

**Requirements**

- PhD degree in the field related to transmission electron microscopy investigations of semiconducting, ceramic, or metallic materials or nanoparticles; **degree granted after 1 January 2015.**
- (co)authorships of scientific publications in international journals related to transmission electron microscopy,
- Ability to operate a TEM microscope and minimum 2 years experience in this field, documented by relevant publications and an opinion of the supervisor.

**Main research field:** Physics

**Sub Research Field:** Solid state physics, electron microscopy

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

**Research Profile** ([details](#)): at least Recognized Researcher (R2)

**Type of Contract:** Temporary 36 months

**Status:** Full-time

**Salary:** Approximately 8300 PLN per month (before ~ 30% taxes, exact amount depends slightly on applicable social security contributions).

## Contact

More information can be obtained from Sławomir Kret (e-mail:kret@ifpan.edu.pl),  
Janusz Sadowski (e-mail: sadow@ifpan.edu.pl)

## Application details

**Application deadline: April 5, 2022** Applications sent after the deadline will not be considered.

### Required materials:

- Curriculum Vitae
- List of publications
- Motivation letter related to this position
- Contact data (e-mail) to at least two potential referees.
- If applicable - documents confirming scientific stays in foreign institutions (foreign relative to the country of your doctoral degree).
- Consent to process your personal data (expressed on the form attached to this announcement)
- 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.

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 ..... post-doc .....
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 ..... post-doc..... .*

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.*