



Job ID: #JOB 27/2022

Job Description

Job Title: PostDoc

Job Summary:

Electrical characterization of ZnO based layers/heterostructures.

Job Description:

The post-doctoral scientist will be involved in the realization of the project: „*Bulk and interfacial defects in structures based on ZnO and ZnO semiconducting alloys*” financed by the National Science Centre (NCN). Aim of the project is to study the electrically active defects located in the bulk and at the interface of ZnO based heterostructures/Schottky diodes with advanced electrical characterization techniques like deep level transient spectroscopy (DLTS), photoinduced current transient spectroscopy (PICTS) and their Laplace extensions. Such advanced studies are of primary importance since they will contribute to a better understanding of the ZnO and ZnO based alloys potential in opto-electrical applications like low-cost solar cells and high efficiency LEDs and can lead to innovative solutions to overcome the present limitations in these prospective structures. The successful candidate will take care of the devices realization, perform the electrical and electro-optical characterization of the ZnO-based structures, contribute to the analysis and interpretation of the achieved results. The information so collected and extracted from modelling the structures electrical characteristics will be used for further improving the device performances.

Previous experience in electrical characterization of semiconductors with overall a good background in solid state physics will be considered as mandatory.

Profile of the candidate:

1. Person holding a PhD in Physics or related fields with a strong background in semiconductor physics/solid state physics.
2. Highly motivated to perform supervised and independent scientific work in the field relevant to the position.
3. Ability to work in a team.
4. Good spoken and written English.

Main research field: Physics

Sub Research Field: semiconductor physics/solid state physics;

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

Research Profile ([details](#)): Recognised Researcher (R2);

Type of Contract: Temporary (7 months) with possibility of further extension if the project is prolonged;

Status: Full-time;

Salary: 10000 PLN per month (before taxes).

Contact

More information can be requested contacting directly the project principal investigator dr. Ramon Schifano (e-mail: schifano@ifpan.edu.pl, telephone number: +48-221163315).

Application details

Application deadline: July 29, 2022 Applications after deadline are not considered.

Required materials:

- Curriculum Vitae.
- List of publications.
- Motivation letter.
- At least two reference contact persons and/or recommendation letters. In both cases phone numbers and e-mail addresses of the contact persons should be also provided.
- Consent to process your personal data (expressed on the form attached to this announcement).

All materials should be submitted in electronic form to the address: 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.
2. Contact details to the Data Protection Officer are as follows: e-mail 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. 22¹ § 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. 22¹ § 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. 22¹ § 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.