



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



Job ID: #JOB 39/2021

Job Description

Job Title: MSc student

Job Summary:

Stochastic thermometry with Josephson junction down to nanosecond resolution

Job Description:

The candidate will take part in the development of the fastest in the world all-solid-state thermometer capable of measuring temperature dynamics in nanostructures with unprecedented temporal and spatial resolution. The project will take an extensive use of a superconducting Josephson junction (JJ) as a temperature-sensing element. Successful implementation of a JJ-based thermometer should lead to establishing a new approach to calorimetry and bolometry at the nanoscale. It will make it possible to dynamically test thermodynamical properties of nanostructures, involving measurements of heat capacity and thermal conductivity as well as mechanisms of heat exchange at low temperatures (hot electron diffusion, electron-phonon coupling, photon radiation).

Main research field: Physics

Sub Research Field: Superconductivity, Josephson junctions.

Career Stage: Student

Research Profile ([details](#)): First Stage Researcher (R1)

Type of Contract: Temporary (9 months with possibility of extension)

Status: Part-time

Salary: 2000 PLN per month (untaxed scholarship).

Contact

More information can be obtained from

Dr. Maciej Zgirski (e-mail: zgirski@ifpan.edu.pl).

Application details

Application deadline: 30/09/2021. Later applications will be not considered.

Required materials:

- Curriculum Vitae
- Motivation letter
- Consent to process your personal data

All materials should be submitted in electronic form to the address:

rekrutacja@ifpan.edu.pl with Job ID in the subject.

Information clause – scholarship competition

Pursuant to Article 13 paragraphs 1 and 2 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals 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 Regulation) Official Journal of the European Union, L 119, 4 May 2016, page 1, as amended, hereinafter referred to as “GDPR”, we hereby inform as follows:

1. The Institute of Physics of the Polish Academy of Sciences with its registered office in Warsaw, Al. Lotników 32/46, represented by its Director, is the Controller, i.e. an entity deciding about how your personal data will be used. You may contact the Controller using one of the contact forms available on the website: tel. (22) 116-2111, e-mail: director@ifpan.edu.pl
2. The Director of the Institute of Physics of the Polish Academy of Sciences has appointed the Data Protection Officer (DPO), whom you may contact in matters relating to your personal data, by sending an email to the following address: iodo@ifpan.edu.pl
3. Your personal data will be processed in connection with your participation in the scholarship competition and if you win the competition, in connection with receiving the scholarship – on the basis of your consent – Article 6 paragraph 1 item a GDPR.
4. Your personal data will be processed for a period of 6 months after the end of the scholarship competition and in the case of receiving the scholarship – for a period resulting from legal and tax regulations;
5. Your personal data will be made available to other entities that can finance and settle the scholarship granted and entities authorized under provisions of law. Your data will only be accessed by people authorized by the Controller;
6. Provision of your personal data is mandatory; in the event of failure to do so, you will not be able to participate in the scholarship competition;
7. You have the right to access your data, the right to rectify it and limit processing thereof;
8. You have the right to lodge a complaint to the President of the Office for Personal Data Protection, if you consider that the processing of your personal data violates provisions of the General Data Protection Regulation.

Consent to processing:

I hereby consent to the processing of my personal data contained in the application/request form by the Institute of Physics of the Polish Academy of Sciences to conduct the scholarship competition and in the case of being granted the scholarship, to pay and settle it. I provide my personal data voluntarily and I declare that it is accurate. I have read the content of the information clause.

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Date and signature