



# Institute of Physics of the Polish Academy of Sciences Scholarship for a PhD Student



**Job ID: #JOB 42/2020**

## Job Description

**Job Title:** PhD student – scholarship holder

**Job Summary:**

Experimental studies of magnetic phase transitions appearing at subkelvin temperatures (50 mK - 1K).

**Job Description:**

The PhD student will perform specific heat and magnetization studies at subkelvin temperatures, by using a dilution refrigerator. The studies will be aimed at investigating whether any magnetic transition appear below 1 K in a few kinds of borates, containing different rare earth ions. For the cases for which the positive result will be obtained (and there are strong indications that the answer should be positive for numerous compounds), the studies will be aimed at establishing whether these are the classical transitions or the transitions modified by quantum fluctuations (i.e., having a quantum character), at studying the influence of magnetic field (up to 9 T) and the kind of the rare earth element existing in the investigated compound on the transitions. The supplementary measurements over the temperature range from 1 K to the room temperature will be performed with the use of standard methods. Prior to employing, the selected candidate will be obliged to pass the recruitment procedure for the Warsaw PhD School in Natural and Biomedical Sciences (web page: [www.warsaw4phd.eu](http://www.warsaw4phd.eu)). The candidate who passed this procedure or the procedure of recruitment for the International PhD Studies at the Institute of Physics of the Polish Academy of Sciences earlier will be exempted from this obligation.

**Main research field:** Physics

**Sub Research Field:** Experimental solid state physics, physics of magnetism

**Career Stage:**

- MSc degree in physics (in the field of solid state physics)
- Basic skill at working with cryogenic systems and performing low temperature studies
- Knowledge of the physics of magnetism and superconductivity at least, on the level of basic university course
- Proficiency in the English language enabling interaction with other scientists, reading and writing scientific papers

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

**Type of Contract:** Fixed term (20 months)

**Status:** Full-time

**Salary: 4500 PLN per month in total** (before subtracting obligatory employer and employee social security contributions.)

## Contact

More information can be obtained from  
Prof. Roman Puźniak (e-mail: [puzni@ifpan.edu.pl](mailto:puzni@ifpan.edu.pl)).

## Application details

**Application deadline: 17 August 2020** Later applications will be not considered.

### Required materials:

- Scientific Curriculum Vitae
- Cover letter
- List of publications
- Consent to process your personal data (expressed on the attached form)
- Contact data to, at least, one scientist who can supply a recommendation letter for the candidate

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

### Information clause in the process of recruitment for studies

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, i.e. the entity deciding how your personal data are used, is the Institute of Physics of the Polish Academy of Sciences, represented by the Director, with its registered office in Warsaw Al. Lotników 32/46. You can contact the Data Controller using one of the contact forms available at: phone (22) 116-2111, e-mail [director@ifpan.edu.pl](mailto:director@ifpan.edu.pl).
2. The Director of the Institute of Physics of the Polish Academy of Sciences has appointed a Data Protection Officer (DPO) with whom you may contact in matters regarding your personal data. You may contact the Officer sending an e-mail to: [iodo@ifpan.edu.pl](mailto:iodo@ifpan.edu.pl)
3. Your personal data shall be processed in order to perform the process of recruitment for studies;
4. The basis for processing of your personal data are provisions of the Act on Higher Schools and Education (consolidated text: Journal of Laws of 2018, item 1668);
5. Your personal data shall be processed for the period of 6 months upon completion of the recruitment process and in case of admission to studies, according to the course of the studies, and then they shall be archived according to the applicable provisions;
6. Your personal data shall not be made available to any other entities save for entities authorised under the provisions of the law. Employees and members of the university recruitment committees authorised by the Data Controller will have access to your personal data;
7. Providing personal data by you is voluntary, but failure to provide them precludes participation in the recruitment process;
8. You have the right to access the contents of your personal data and you have the right to rectify them, erase them and restrict their processing;
9. You can submit a complaint to the Inspector General for the Protection of Personal Data if you find that their processing violates provisions of the General Data Protection Regulation.

#### Consent for processing:

I grant my consent for processing of my personal data by the Institute of Physics of the Polish Academy of Sciences in order to ensure conditions of full participation in the process of recruitment for studies. I provide the personal data voluntarily and declare that they are true. I have familiarised myself with the content of the information clause, including the information about the purpose and methods of processing of personal data and right to access the content of my data and the right to rectify them.

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Date, candidate's signature