



# Institute of Physics of the Polish Academy of Sciences

## Scholarship for a PhD Student



**Job ID: #JOB62/2021**

### Job Description

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

**Job Summary:** Experimental work in SQUID magnetometry and magnetotransport measurements specific to the research tasks of the project entitled: “Topological Aspects of Superconductivity and Ferromagnetism in Group IV Chalcogenides - an Experimental Approach”

**Job Description:**

The selected candidate will be tasked with:

- (i) magnetoelectric measurements in wide range of temperatures and magnetic fields and conducting SQUID based magnetometric measurements,
- (ii) development of experimental set-up and seeking new practical approaches to overcome challenges related with the execution of the project
- (iii) data reduction, synthesis of the obtained experimental results and their presentation as seminars, reports and publications.

Requirements:

- Master’s degree in physics (or an equivalent that qualifies one for PhD studies in physics in the country of issue).
- Experience in experimental work (documented by publications and / or reference letters) with a strong preferences for those who have already worked with transport and magnetic properties of dilute magnetic semiconductors.
- Good knowledge of English in speech and writing.
- The ability to work independently and to effectively cooperate and communicate with other members of the group (including those working in experiment), and with external colleagues.
- To be employed, the candidate must be accepted into the PhD school in which the Institute of Physics participates. Applications for the position are through recruitment to the School, online at [warsaw4phd.eu](http://warsaw4phd.eu).

**Main research field:** Physics

**Sub Research Field:** Solid state physics

**Career Stage:** Early stage researcher or 0-4 yrs (Post-graduate)

**Research Profile (details):** First Stage Researcher (R1)

**Type of Contract:** Fixed term (16 months)

**Status:** Full-time

**Salary:** grant funding of **4500** PLN per month, before subtracting obligatory employer and employee social security contributions (~15%).

### Contact

More information can be obtained from  
Maciej Sawicki (e-mail: [mikes@ifpan.edu.pl](mailto:mikes@ifpan.edu.pl))  
<http://www.ifpan.edu.pl/SL-2/staff2.3.html>  
Please make contact.

## Application details

**Application deadline: 04.01.2022** Later applications will not be considered.

### Required materials:

- Scientific CV
- Cover letter
- Scan of MsC diploma or equivalent (or an explanation of when one is expected)
- Academic record (for finalized semesters)
- Recommended: A recommendation letter by an academic, or their contact email.

All materials should be submitted in electronic form by application to the PhD school [warsaw4phd.eu](http://warsaw4phd.eu), choosing the project: "*Topological Aspects of Superconductivity and Ferromagnetism in Group IV Chalcogenides - an Experimental Approach*". The application system will be active from 21 December 2021.

Results regarding the position will be made available by 11 February 2022.