



Institute of Molecular Physics Polish Academy of Sciences

Mariana Smoluchowskiego 17, 60-179 Poznań, Poland

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Director of Institute of Molecular Physics PAS

announces a recruitment for the position

master student

in the research project Sonata Bis 8

Institution: Institute of Molecular Physics Polish Academy of Sciences (IMP PAS)

(PL: Instytut Fizyki Molekularnej Polskiej Akademii Nauk /IFM PAN/)

City: Poznań, Poland

Position: master's student

Scientific discipline: physical sciences, materials engineering and related fields

Opening date: 27 January 2022

Application deadline: 17 February 2022, 14:00 CET

Website: <http://www.ifmpan.poznan.pl>

Key words: solid state physics, condensed matter properties, computer physics, applied physics

I. Offer description and responsibilities:

Title of the scientific project: Layered nanostructures for permanent magnet and spintronic applications

Principal investigator: Mirosław Werwiński

Project description and project goals: The project concerns the first principles calculations to give an atomic-scale picture of the magnetic properties of tunnel junctions and spin valves. The obtained results will be used to develop the idea of a spin valve on a single monolayer. Furthermore, using the DFT methods the Fe-Co-based magnetic monolayers and multilayers phases will be investigated.

II. Requirements for candidates:

1. Research career stage:

R1: First Stage Researcher (up to the point of PhD)

2. Required education:

bachelor's degree in physical sciences or materials engineering or related field

3. Necessary qualifications and skills:

- the basic skills in programming
- the ability to use programs supporting research, such as mathematica, origin, spreadsheet, etc.

4. Special requirements:

- student status of second-degree studies at university in Poland or
- student status of at least the fourth year of uniform Master's studies implemented at university in Poland

5. Knowledge of foreign languages: basic knowledge of English**6. Scientific experience required:**

- in the discipline: physical sciences or materials engineering or related field
- particularly welcome interest in computer simulations, quantum mechanics, solid state physics, physics of magnetism, computer techniques, programming or Linux.

7. Professional experience required:

no experience required

III. Duration of the employment:

14 months

IV. Type of contract: not applicable**V. Expected start of stipend:** 1 March 2022**VI. Employment type:** scholarship in a research project**VII. Salary:** about 1500 PLN (one thousand five hundred zlotys) per month**VIII. Number of positions offered:** 1

IX. Job benefits: raising the level of competence, gaining new knowledge, experience and skills, establishing scientific cooperation, performing a master's thesis and the possibility of obtaining a master's degree, etc.

X. Required documents:

1. application;
2. CV containing a description of:
 - candidate's competence to carry out research tasks in the project,
 - the candidate's scientific achievements, including scientific publications,
 - distinctions, scholarships, awards, scientific training, workshops, participation in research projects and scientific experience acquired outside the home scientific unit in the country or abroad,
3. scan or photocopy of the bachelor / engineering diploma,
4. consent to the processing of personal data for recruitment purposes (Appendix 1);
5. copy of the bachelor / engineering thesis,
6. references from the bachelor / engineering thesis supervisor are welcome.

Documents in other languages than Polish or English should be translated into Polish or English.

XI. Method of submitting offers:

Applications with the annotation Master's degree competition- Z2 – no. 01" should be delivered to the Institute's address or sent to the e-mail address werwinski@ifmpan.poznan.pl.

Contact person:

dr hab. Mirosław Werwiński, prof. IFM PAN
e-mail: werwinski@ifmpan.poznan.pl
tel.: +48 (0)61 8695150

XII. Qualification criteria:

- candidate's competence to carry out research tasks in the project,
- candidate's scientific achievements, including scientific publications,
- distinctions, scholarships, awards, completed scientific training, workshops, participation in research projects and scientific experience acquired outside the home scientific unit in the country or abroad.

XIII. Qualification process:

Offer competition and eventual short conversation with selected candidates. The evaluation and selection is made by the selection board.

□ **Expected date of the results announcement:** 25 February 2022

DYREKTOR
Instytutu Fizyki Molekularnej
Polskiej Akademii Nauk



prof. dr hab. Zbigniew Trybula

DISCLAIMER:

According to art. 13 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 (Journal of Laws UE L 119/1 of 4.5.2016), hereinafter referred to as RODO, we inform that:

1. The administrator of your personal data is the Institute of Molecular Physics Polish Academy of Sciences in Poznań, ul. Mariana Smoluchowskiego 17.
2. Your personal data will be processed for the duration of the recruitment process.
3. You have the right to request from the administrator access to personal data, the right to correct them, delete or limit processing, the right to object to the processing of personal data, as well as the right to transfer data.
4. You have the right to withdraw your consent at any time. The above does not affect the compliance with the law, which was made on the basis of your consent before it was withdrawn.
5. It is possible to lodge a complaint with the supervisory body - the President of the Office for Personal Data Protection.
6. Providing personal data is voluntary.
7. Your data will not be shared with entities other than entities authorized on the basis of applicable law.
8. The administrator will not transfer your personal data to recipients in third countries and international organizations.

Consent for the processing of personal data for recruitment purposes

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council 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 Regulation).

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Name

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Date and signature