



Institute of Molecular Physics
Polish Academy of Sciences
Mariana Smoluchowskiego 17, 60-179 Poznań, Poland
www.ifmpan.poznan.pl
tel. 61 8695 100, fax 61 8684 524

FORM FOR EMPLOYERS

**Director of the Institute of Molecular Physics of the Polish Academy of Sciences
announces recruitment for the associate professor at the Department of Low
Temperature Physics, Quantum Materials and Technologies (ZN4)**

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

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

City: Poznań, Poland
Position: Associate Professor
Scientific discipline: Physical Sciences (or related)
Opening date: 20 March 2026
Application deadline: 10 April 2026, 15:00 CEST
Website: <https://www.ifmpan.poznan.pl/en/>

Key words: quantum mechanics, solid-state physics, nanoelectronics, magnetism, nanospintronics, topological properties of matter, magnetotransport, two-dimensional systems, van der Waals structures, multiferroics, graphene-based heterostructures

I. Offer description:

- Theoretical studies of the electronic, magnetic, and topological properties of graphene-based heterostructures and other low-dimensional systems for future nanoelectronics and nanospintronics, as well as topological insulators and other two-dimensional crystals;
- Studies of the effects of magnetoelectric interactions in multiferroic structures, including multiferroic van der Waals materials.

II. Requirements for candidates:

1. Research career stage:

R3: Established Researcher (researchers who have developed a level of independence);
More information on career stages: <https://www.more-4.eu/indicator-tool/career-stages-r1-to-r4>

2. Required education:

- in the discipline of physical sciences (or related);
- academic degree: at least PhD degree (doctor) with habilitation.

3. Required qualifications and skills:

- proven proficiency in analytical methods of electronic transport theory;
- documented scientific achievements (publications, invited conference presentations, etc.);
- knowledge of advanced *ab-initio* computational methods for modeling electronic and magnetic properties of low-dimensional systems;

- documented organizational activities (supervision of students and PhD candidates, organization/co-organization of conferences and other scientific events, etc.);
- experience in carrying out and leading research projects, including international ones.

4. Special requirements:

- experience in theoretical studies of topological properties and spin and charge transport in low-dimensional systems, including semiconductor heterostructures, graphene, van der Waals materials, and topological insulators;
- knowledge of advanced computational, theoretical and numerical methods for studying electronic and magnetic properties of low-dimensional crystals;
- openness to cooperation with experimental research groups.

5. Knowledge of English:

good (enabling effective communication, preparation of scientific publications, applying for research projects, etc.)

6. Scientific experience required:

- in the discipline of physical sciences (or related);
- in the fields of: quantum mechanics, solid-state physics, topological properties of condensed matter, electronic and spin transport.

7. Professional experience required:

over 10 years (taking into account research experience, including the period of doctoral studies)

III. Duration of the employment: to be determined individually (in accordance with regulations)

IV. Type of contract: negotiable

V. Expected date of employment start: 01 June 2026

VI. Employment type: employment contract

VII. Salary*: approximately 8550 PLN gross per month
(approximately eight thousand five hundred and fifty)

**) This applies to full-time employment. In the case of part-time employment, the amount of remuneration will be determined proportionally (Sec. IV).*

VIII. Number of positions offered: 1

IX. Job benefits:

- the experienced scientific staff of the Research Department may assist in the candidate's further scientific and professional development;
- establishing scientific collaboration, including international cooperation;
- a diverse and inclusive working environment;
- seniority allowance of 3% of the monthly base salary after 3 years of employment, increasing by 1% for each subsequent year, up to 20% of the monthly base salary after 20 years of employment;
- benefits from the social fund;
- access to a group insurance scheme.

X. Required documents:

1. Application (including concise information about the candidate's scientific interests and important achievements – no more than 3500 characters);
2. CV (including education and the course of scientific careers and information on: scientific experience as described above in Sec. II.3, II.4, and II.6; internships and scientific training;

conference presentations and seminars; prizes and awards; participation in research projects; acquired funds (grants); participation in the process of developing scientific staff; teaching activities; organizational achievements; etc.);

3. List of scientific publications;
4. Scientific plans;
5. Scan or photocopy of a document confirming the possession of the PhD degree (doctor) with habilitation;
6. Consent to the processing of personal data for recruitment purposes – Appendix No. 1;
7. Statement that in the event of winning the competition and being employed full-time (Sec. IV), the Institute of Molecular Physics of the Polish Academy of Sciences will be the primary place of work within the meaning of the Act of 20 July 2018 *Law on Higher Education and Science* (Journal of Laws of 2018, item 1668, as amended) – Appendix No. 2.

Documents in languages other than Polish or English must be translated to Polish or English.

XI. Method of submitting offers:

Applications with the annotation “**Competition for an associate professor at the Department of Low Temperature Physics, Quantum Materials and Technologies – ZN4 – No. 1/2026**” should be delivered to the Institute’s address or sent to the e-mail address: director@ifmpan.poznan.pl

Contact person:

Head of the Department of Low Temperature Physics, Quantum Materials and Technologies
Dr. hab. Maria Augustyniak-Jabłokow, Prof. IMP PAS
E-mail address: maria.augustyniak@ifmpan.poznan.pl

XII. Qualification criteria:

- scientific achievements after obtaining the habilitation after the PhD degree, including
 - i) scientific achievements in theoretical research on spin and charge transport and the topological properties of condensed matter, ii) familiarity with field theory methods based on Green’s function formalism and diagrammatic techniques;
- conducting research or development projects funded by grants awarded through a competitive process;
- participation in the process of academic staff development;
- teaching activity;
- completed internships and research visits at international institutions.

XIII. Qualification process:

- 1) Job application competition;
- 2) The best-ranked candidates may be invited to an interview (either an on-site interview or videoconference).

Candidate ratings will be done by the Competition Commission appointed by the Director. A candidate with a negative opinion may appeal against the results of the evaluation to the Director within 7 days from the date of receipt of the Competition Committee's opinion.

XIV. Expected date of the results announcement: April 2026

XV. Additional information: IPM PAS does not provide accommodation.

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 GDPR, we inform that:

1. The administrator of your personal data is the Institute of Molecular Physics of the Polish Academy of Sciences, ul. Mariana Smoluchowskiego 17, 60-179 Poznań, Poland.
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).

.....

Name

.....

Date and signature

DECLARATION

I declare that if I win the Contest the Institute of Molecular Physics of the Polish Academy of Sciences will become my primary place of work within the meaning of the Act of 20 July 2018, *Law on Higher Education and Science* (Journal of Laws of 2018, item 1668, as amended).

.....

Name

.....

Date and signature