



Institute of Molecular Physics Polish Academy of Sciences

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www.ifmpan.poznan.pl

Director of Institute of Molecular Physics, Polish Academy of Sciences

announces recruitment for the assistant professor
at the Department of Molecular Crystals (ZN7)

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

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

City: Poznan, Poland

Position: assistant professor

Scientific discipline: Physical sciences or related fields

Opening date: June 26, 2023

Application deadline: July 17, 2023, 15:00 CEST

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

Keywords:

Solid state physics, vibrational and electronic spectroscopy, measurements of electrical properties, organic proton conductors, conductive polymers, quantum-mechanical calculations using DFT and TD-DFT methods, the quantum theory of atoms in molecules (QTAiM)

I. Offer description:

- Study of the spectroscopic properties of organic conductive polymers and proton conductors.
- Conducting theoretical research using methods of quantum mechanics to describe the vibrational and electronic structure of organic conductors.
- Performing measurements of electrical conductivity in organic compounds.
- Interpretation of the obtained research results and participation in the preparation of publications.

II. Requirements for candidates:

1. Research career stage:

R2: Recognised Researcher

More information on career stages:

<https://www.more3.eu/indicator-tool/career-stages-r1-to-r4>.

2. Required education:

- in the discipline of physical science or similar;
- academic degree: doctor.

3. Required qualifications and skills:

- knowledge of DFT and TD-DFT methods;
- knowledge of spectroscopic methods for the description of vibrational and electronic structures;
- ability to record absorption and reflectance spectra over a wide spectral range (from FIR to UV);
- ability to measure conductive properties;
- documented scientific achievements (grants, publications, speeches, awards, etc.);

- good knowledge of computer programs necessary for scientific research (Microsoft Office, Gaussian, AIM, GaussView, GaussSum, Origin, Fityk, OPUS, etc.).
4. **Special requirements:** experience performing DFT and TD-DFT calculations at supercomputing centers.
 5. **Knowledge of English:** good, enabling communication with other team members.
 6. **Scientific experience required:**
 - in the discipline of physical sciences or similar;
 - on the topic of: solid state physics, spectroscopic and conducting properties of organic systems, analysis by experimental and theoretical methods of the vibrational and electronic structure of organic systems.
 7. **Professional experience required:** 1-4 years or more
- III. **Duration of the employment:** to be determined individually based on the current regulations
 - IV. **Type of contract:** full-time job
 - V. **Expected date of employment start:** August-September 2023
 - VI. **Employment type:** employment contract
 - VII. **Salary:** in accordance with the current Law
 - VIII. **Number of positions offered:** 1
 - IX. **Job benefits:** excellent working conditions, state-of-the-art. Technical facilities, international cooperation
 - X. **Required document:**
 1. application;
 2. CV including information on education and the course of scientific careers, internships and scientific training, conference presentation and seminars, prizes, and awards, participation in research projects, acquired funds, organizational achievements, etc.;
 3. list of scientific publications;
 4. a scan or photocopy of an English certificate for non-native English speakers;
 5. a scan or photocopy of the Ph.D. degree;
 6. consent to the processing of personal data for recruitment purposes (Appendix No. 1);
 7. a statement that if the contest is won, the Institute of Molecular Physics 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;
 8. opinion of at least two independent researchers (conducting independent research or leading an independent research team).

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

- XI. **Method of submitting offers:** applications with the annotation „Competition for an assistant professor – ZN7 – No. 03” should be delivered to the Institute’s address or sent to the e-mail address: director@ifmpan.poznan.pl.

Contact person:

Head of Department of Molecular Crystals

Assoc. Prof. Andrzej Łapiński, PhD, DSc

e-mail: andrzej.lapinski@ifmpan.poznan.pl

XII. Qualification criteria:

1. scientific achievements in the study of oscillatory and electron spectroscopy of organic compounds;
2. knowledge of computational methods to analyze hydrogen bonds and spectroscopic properties;
3. experience in recording vibrational and electronic spectra over a wide spectral range;
4. experience in researching the conductive properties of organic compounds.

XIII. Qualification process:

1. Job application competition;
2. Possibility online interview with the best candidates.

The IMP PAS Scientific Council Committee will make the selection for the Training of Young Scientific Staff in accordance with the regulations of competitions for hiring an assistant and assistant professor at IMP PAS.

XIV. Expected date of the results announcement: August 31, 2023**XV. Additional information:** IFM 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 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.

Appendix 1

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