



**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, Polish Academy of Sciences**  
announces a recruitment for the position assistant  
at the Department of Solid State Physics

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

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

**City:** Poznań, Poland

**Position:** assistant professor

**Scientific discipline:** physical sciences

**Opening date:** 30 January 2020

**Application deadline:** 19 February 2020, 15:00 CET

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

**Key words:** quantum mechanics, solid state physics, statistical physics, thermodynamics

## **I. Offer description:**

- Theoretical studies of nonequilibrium thermodynamic processes in nanostructures;
- Studies of electronic transport in nanoscopic systems;

## **II. Requirements for candidates:**

**1. Research career stage:** R2: Recognised Researcher

### **2. Required education:**

- **in the discipline:** physical sciences
- **professional title, academic degree or academic title:** doctor

### **3. Required qualifications and skills:**

- Experience in theoretical research of nonequilibrium thermodynamics in mesoscopic systems, in particular in studies of electron dynamics, electronic transport, entropy production and its correlations;
- Experience in computing methods needed for analysis thermodynamic processes in nanoscale (sequential and ballistic transport, current correlations, Green function method);
- Scientific achievements (papers in recognized journals, conference contributions, grants, etc);
- Knowledge of the recent trends in thermodynamics of nanostructures and quantum information theory is recommended;
- Experience of programs needed for numerical calculations and editorial works (Mathematica packages, Latex, Office programs)

**4. Special requirements: --**

**5. Knowledge of English:** good

**6. Scientific experience required:**

- in the discipline: physical sciences;
- on the topic of: quantum mechanics, solid state physics, statistical physics, thermodynamics

**7. Professional experience required:** 4-10 years

**III. Duration of the employment:** permanent

**IV. Type of contract:** full-time

**V. Expected date of employment start:** March 1, 2020

**VI. Employment type:** employment contract

**VII. Salary:** about 4.700,00 PLN

**VIII. Number of positions offered:** 1

**IX. Job benefits:**

raising the level of competence, acquiring new knowledge, experience and skills, establishing scientific cooperation

**X. Required documents:**

1. Application;
2. CV including information on education and the course of scientific careers, internships and scientific training, conference presentations 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 the university diploma, PhD degree or academic title;
5. consent to the processing of personal data for recruitment purposes (Appendix No. 1);
6. statement that if the contest is won, 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;
7. Supervisor opinion or reference letters in the case of young researchers - optional.

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

**XI. Method of submitting offers:**

Applications with the annotation "Konkurs na stanowisko adiunkta- Z2 – No. 01" should be delivered to the Institute's address or sent to the e-mail address [director@ifmpan.poznan.pl](mailto:director@ifmpan.poznan.pl)

**Contact person:**

Name: Prof. Bogdan Bułka – head of Department of Solid State Theory,

e-mail: [Bogdan.Bulka@ifmpan.poznan.pl](mailto:Bogdan.Bulka@ifmpan.poznan.pl)

phone: +48 61 8695 152

**XII. Qualification criteria:**

1. Scientific achievements of the candidate in theoretical research on electronic transport and thermodynamic phenomena in the nanoscale (including scientific publications, awards and distinctions, scientific internships, participation in research projects);
2. Experience in modeling mesoscopic systems and in analytical and numerical studies of electronic transport taking into account the dynamics and coherence in scattering processes.

**XIII. Qualification process:**

1. Job application competition,
2. Skype interview with the best candidates.

The selection will be made by a contest committee: IFM PAN Scientific Council Committee for the Training of Young Scientific Staff or IFM PAN Scientific Council Committee for Professors.

**XIV. Expected date of the results announcement:** February 25, 2020**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 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