



# Instytut Fizyki Molekularnej Polskiej Akademii Nauk

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**Director of Institute of Molecular Physics, Polish Academy of Sciences**  
announces a recruitment for the position of assistant  
at the Department of Magnetic Alloys

**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

**Scientific discipline:** physical sciences

**Opening date:** 9<sup>th</sup> October 2020

**Application deadline:** 22<sup>nd</sup> October 2020, 15:00 CEST

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

**Keywords:** intermetallic compounds, solid state physics, magnetism, electrical resistivity, specific heat, magnetocaloric effect, inelastic neutron scattering, X-ray diffraction, Kondo lattice, Quantum Critical Point

## I. Offer description:

- Synthesis of intermetallic compounds using induction melting and arc-melting.
- Measurements of X-ray and neutron diffraction and inelastic neutron scattering; analysis of results.
- Measurements and analysis of the transport, thermodynamic and magnetic properties: electrical resistivity, thermal conductivity, thermoelectric power, specific heat, magnetic susceptibility and magnetization.
- The analysis of results and their publication.
- Handling and development of technological and measurement equipment.

## II. Requirements for candidates:

### 1. Research career stage:

R2: Recognized Researcher,

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

### 2. Required education:

- in the discipline: physical sciences;
- academic degree: doctor.

### 3. Required qualifications and skills:

- Scientific achievements (papers in recognized journals, conference contributions, awards, etc.);
- Knowledge of the basic technological and measurement methods, especially those available in the Department of Magnetic Alloys: induction and/or arc melting, X-ray diffraction, specific heat, electrical resistivity, thermoelectric power, magnetic susceptibility and magnetization.

- Good knowledge of solid state physics, in particular in the field of magnetism and intermetallic compounds and alloys.
- Experience in using software necessary for scientific research and text editing (Microsoft Office, Latex, Origin, Mathematica, FullProf Suite, *etc.*).

#### **4. Special requirements:**

- Experience in working on measuring equipment using cryogenic liquids.

#### **5. Knowledge of English:** at least good

#### **6. Scientific experience required:**

- in the discipline: physical sciences;
- on the topic: solid state physics, especially magnetism and magnetic properties;
- in the methods: magnetometry, specific heat measurements, transport properties measurements, X-ray diffraction.

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

#### **III. Duration of the employment:** to be determined individually

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

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

#### **VI. Employment type:** employment contract

#### **VII. Salary:** according to the law

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

#### **IX. Job benefits:**

internship allowance, social package (among others: co-financing for rest, co-financing of cultural-educational and sport-recreation activities, co-financing the purchase of prescription glasses, occasional benefits), group life insurance, raising the level of competence, acquiring new knowledge, experience and skills, the possibility of advancement to a higher degree, 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 and PhD degree;
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. opinion or reference letters 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 **Z11-No 09** should be delivered to the e-mail address:

[director@ifmpan.poznan.pl](mailto:director@ifmpan.poznan.pl)

**Contact person:**

Name: Assoc. Prof. Tomasz Toliński  
the Head of the Department of Magnetic Alloys  
e-mail: tomtol@ifmpan.poznan.pl  
mobile: +48 600 477 242


**XII. Qualification criteria:**

The candidate's scientific achievements in the field of experimental research on intermetallic compounds and alloys, especially Kondo lattices and systems showing fluctuating valence, Quantum Critical Point, magnetic order (publications, conference presentations, awards)

**XIII. Qualification process:**

1. job application competition,
2. if necessary, on-line interview with the best candidates.

The selection will be made by a contest committee: IMP PAS Scientific Council Committee for the Training of Young Scientific Staff

**XIV. Expected date of the results announcement:** 28<sup>th</sup> October 2020**XV. Additional information:** IMP 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

## **Appendix 2**

### **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