Institute of Molecular Physics
Polish Academy of Sciences

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Director of Institute of Molecular Physics, Polish Academy of Sciences
announces recruitment for the assistant professor
at the Department of Nuclear Magnetic Resonance (Z8)

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:	13th May 2021
Application deadline:	31th May 2021, 15:00 CEST
Website:	http://www.ifmpan.poznan.pl

Keywords: properties of condensed matter, structural changes, molecular dynamics, nuclear magnetic relaxation, dielectric relaxation, ionic conductivity

I. Offer description and responsibilities:

- Designing new ion conductors: ion gels and composites based on biodegradable polymers functionalized with nitrogen-containing heterocyclic molecules.
- Investigation of the physicochemical properties of new materials using the following methods: calorimetric (DSC, TGA), broadband dielectric spectroscopy and impedance spectroscopy, and the NMR techniques (high-resolution CP-MAS NMR spectroscopy, FFC NMR relaxometry, NMR diffusion).
- Development and analysis of the obtained results based on appropriate theoretical models.
- Preparation of publications.

II. Requirements for candidates:

1. Research career stage:

R2: Recognised Researcher (PhD holders or equivalent who are not yet fully independent),

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

2. Required education:

- in the discipline: physical or related sciences
- academic degree**:** doctor

3. Required qualifications and skills:

- Documented scientific achievements (publications in renowed scientific journals, conference presentations, managing grant projects, awards, etc.);
- Experience in the research of ion conductors in particular regarding molecular dynamics and mechanisms ionic conductivity;
- Knowledge of the latest trends and achievements in the research of ionic conductors;

- Knowledge of basic measurement methods such as: calorimetric (DSC, TGA), broadband dielectric spectroscopy and impedance spectroscopy, and the ability to process the results of these measurements;
- Good knowledge of computer programs necessary for the development of research results (Microsoft Office, Origin, Mathematica, etc.).
- Employee creativity.

4. Special requirements:

- Experience in conducting research using NMR techniques (high-resolution CP-MAS NMR spectroscopy, FFC NMR relaxometry, NMR diffusion measurement).

5. Knowledge of English: at least good

6. Scientific experience required:
- in the discipline: physical or related sciences;
- on the topic: of soft matter physics, properties of condensed matter, chemical physics, applied physics;

7. Professional experience required: 1-4 years

III. Duration of the employment: to be determined individually

IV. Type of contract: full-time

V. Expected date of employment start: 1st July 2021

VI. Employment type: employment contract

VII. Salary: in accordance with the Law: **(**approximate gross salary 4600,00 PLN brutto)

VIII. Number of positions offered: 1

IX. Job benefits:

very good working conditions, a young and integrated research team, modern equipment, social package, the possibility of promotion to a higher academic degree.

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, 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;
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 “Competition for an assistant professor Z8 - No. 02" should be sent to the e-mail address director@ifmpan.poznan.pl.

Contact person:

Name Prof. dr hab. Jadwiga Tritt-Goc
e-mail: Jadwiga.tritt-goc@ifmpan.poznan.pl
Phone: +48 602 741 097

XII. Qualification criteria:

1. The candidate's scientific achievements, including those related to experimental and/or theoretical research on ionic conductors
2. Ability to research with advanced NMR methods (high-resolution solid-state CP-MAS NMR spectroscopy, FFC NMR relaxometry, NMR diffusion measurement).

XIII. Qualification process:

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

The selection will be made by the IPM PAN Scientific Council Committee for the Training of Young Scientific Staff.

XIV. Expected date of the results announcement: 21st June 2021
XV. Additional information: IPM PAS does not provide accommodation.

DIRECTOR
of Institute of Molecular Physics
Polish Academy of Sciences

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