



## **Assistant Professor in the Research Staff Group at Department of Molecular Physics, Faculty of Chemistry, Lodz University of Technology**

Lodz University of Technology is one of the finest universities of technology in Poland. Its tradition and experience in training professionals and conducting research date back more than 75 years. It is an attractive partner for business. It cooperates with the largest national and international corporations. It conducts research of a European standard, develops new technologies and creates innovation in collaboration with the leading research centres all over the world. One of the pillars of Lodz University of Technology management is equal treatment of staff regardless of their gender, age, race or other demographic and social characteristics. In 2016, TUL was the first technical university in Poland to receive the HR EXCELLENCE IN RESEARCH award certifying that the University adheres to the principles of *the European Charter for Researchers* and *the Code of Conduct for the Recruitment of Researchers*.

### **1. The requirements for the candidate:**

- Ph.D. degree in science and life sciences in the discipline of physical, chemical sciences, or related Sciences;
- Fluency in written and spoken English
- Experience in studying the optoelectronic properties of organic semiconductors;
- Experience in thin film deposition;
- Experience in studying the surface morphology and microstructure of thin films;
- Proven track record of scientific accomplishments in optoelectronics;
- The ability to prepare scientific reports and public presentation of scientific results in English;
- The ability to work in a team environment.

#### Desired additional skills:

- Ability to prepare thin films of organic materials by various solution and thermal sputtering methods;
- Experience in constructing and testing organic field-effect transistors;
- Experience using gloveboxes;
- Openness to new concepts, ease of learning;
- Independence and decision-making skills;
- knowledge of the principles of molecular dynamics (MD) and semi-empirical MD methods (PM6, PM7, GFN2);
- Basic ability to use MD software (LAMMPS, Gromacs, Yasara, Scigress, xtb);
- Knowledge of scripting programming languages (e.g. Python)
- Ability or willingness to quickly learn MD simulations of aggregation and crystallization processes

### **2. Working conditions:**

Employment contract (full-time) from March 2025 with a PLN 8850,00 of full remuneration costs

### **3. Description of the expected scope of tasks and responsibilities: ●**

- Conducting scientific research under dr hab. Tomasz Marszałek supervision within the research project "Controlled crystallization for trap-limited charge carrier transport in organic semiconductors" (Acronym: Crystal).
- Performing duties of an assistant supervisor for a PhD student employed to carry out the Crystal project.
- Active participation in organizational work related to implementation of the Crystal project.



## Politechnika Łódzka

- Active participation in the construction and organization of laboratory facilities needed for the implementation of the Crystal project and in maintaining them in good technical condition.
- Organizational work for the Department of Molecular Physics, Faculty of Chemistry and Lodz University of Technology in the scope related to the implementation of the Crystal project (e.g. related to renovations, moving to new premises, failures, etc.).

#### 4. List of required documents:

- 1) Application for employment to the JM Rector of Lodz University of Technology;
  - 2) Personal questionnaire for a person applying for employment at the Lodz University of Technology, as provided in Appendix No. 1.1 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT"
  - 3) Data Privacy Statement as provided in Appendix No. 1.2 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT";
  - 4) Consent to processing of personal data, as provided in Annex No. 1.3 to the "OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT ";
  - 5) True copies/copies of diplomas;
  - 6) Other documents proving qualifications.
5. Applications will be accepted until 11.01.2025r at the Secretariat of the Department of Molecular Physics, Lodz University of Technology, 116 Żeromskiego Street, 90-924 Łódź, (building A27) or by e-mail: w3k31@adm.p.lodz.pl (in the title of the e-mail necessarily write: "competition - research assistant professor K31"). The competition organizer reserves the right to cancel the competition without giving any reasons. The results of the competition are not tantamount to the establishment of the employment relationship with Lodz University of Technology. The final decision on employment will be made by the Rector based on the recommendation of the competition committee. Candidates will be allowed to collect their documents related to the competition for 30 days after the competition ends.

**6. Contact person and e-mail address** for sending documents or scans: Katarzyna Tadel  
w3k31@adm.p.lodz.pl

**7. Expected date of the announcement of the decision:** 01.02.2025r..

#### 8. Candidate Information Materials (Department of Molecular Physics description):

Department of Molecular Physics (KFM) is a part of the Faculty of Chemistry of the Lodz University of Technology. It is an interdisciplinary unit, conducting research at the intersection of chemistry, physics, material engineering, including nanotechnology.

Currently, the Department's topics include the physics of organic solids, physics and physical chemistry of polymers, including:

- electrical and optical properties,
- conductivity and photoconductivity of polymers;
- electroluminescence and luminescence of organic materials;
- molecular spectroscopy of polymers;
- stimuli-sensitive polymer hydrogels;
- organic semiconductors and conductors, molecular crystals;
- physical methods of polymer modification, new methods of composites manufacturing;
- thin film deposition technologies;
- modeling of macromolecular dynamics;



**PERSONAL INFORMATION FORM FOR APPLICANTS FOR EMPLOYMENT AT  
LODZ UNIVERSITY OF TECHNOLOGY**

1. First name(s) and family name .....
2. Date of birth .....
3. Contact details .....
4. Education (where required for specific duties or jobs) .....

.....  
(name of school and graduation date)

.....  
(occupation, specialisation, degree, professional title, academic title)

5. Professional qualifications (where required for specific duties or jobs) .....

.....  
(courses, postgraduate education, other forms of further development of knowledge and skills)

6. Employment history (where required for specific duties or jobs) .....

.....  
(employment periods and jobs held at previous employers')

7. Additional personal information, where the right or the duty to disclose it exists under specific regulations .....

.....  
(place and date)

.....  
(signature of the applicant)



## Data Privacy Statement for job candidates

Pursuant to Article 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 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, Official Journal of the EU L 119/1), hereinafter referred to as "GDPR", we inform you as follows:

- 1) Lodz University of Technology with the registered office in Lodz is the Controller of your personal data;
- 2) We have appointed a Data Protection Officer to supervise the compliance of personal data processing, who can be contacted in matters concerning the protection of your personal data at the following e-mail address: [iod@adm.p.lodz.pl](mailto:iod@adm.p.lodz.pl); telephone number: 42 631 2039; or in writing to the address of our registered office: Lodz University of Technology, Żeromskiego 116, 90-924 Łódź;
- 3) As the controller, we will process your data for the purpose of the recruitment process for the position indicated, based on your consent (Article 6(1)(a) GDPR);
- 4) You have the right to withdraw your consent to the processing of your personal data at any time, but such withdrawal shall not affect the lawfulness of the processing effected on the basis of your consent prior to its withdrawal;
- 5) You have the right to lodge an objection against the processing of the data as set out above at any time. We will cease to process your data for these purposes unless we can demonstrate that there are compelling legitimate grounds for us to do so which override your interests, rights, and freedoms, or that your data will be required for the possible establishment, assertion, or defense of claims;
- 6) Your personal data provided in the CV, personal information form for the applicant for employment, and copies of documents supporting your professional experience, education, additional credentials and qualifications will be processed for the period in which claims related to the recruitment process may arise, i.e. for 6 months following the conclusion of the recruitment process. For individuals who have given their consent to the processing of personal data for the purposes of future recruitment, for a period of 12 months following the conclusion of the recruitment process during which the consent has been given;
- 7) Only individuals authorized by the Controller to process your data in the performance of their duties will have access to your data;
- 8) Your personal data will not undergo automated processing and will not be subject to profiling;
- 9) Under GDPR, you shall further have:
  - a) the right to access your data and to receive copies thereof,
  - b) the right to rectification (amendment) of your data,
  - c) the right to erasure/to be forgotten, restriction of data processing,
  - d) the right to data portability,
  - e) right to file a complaint to the supervisory authority - President of the Personal Data Protection Office, Stawki 2, 00-193 Warsaw.

.....  
(date and signature of the candidate)



**Consent of the candidate to the processing of personal data  
(pursuant to Article 7 GDPR)**

I consent to the processing of my personal data by Lodz University of Technology, the Controller of the data included in the following documents that I have submitted:

.....  
.....

for the purpose of recruitment/employment\*.

I hereby declare that I have been informed of the right to withdraw my consent at any time, effective as of the date of submission of the withdrawal of consent.

The Controller (or an authorised representative) has also informed me that the withdrawal of consent does not affect the lawfulness of the processing performed on the basis of the said consent prior to its withdrawal.

.....  
(date and signature of the candidate)

\* delete as appropriate