Politechnika Łódzka

Research assistant (PhD student), Department of Molecular Physics, Faculty of Chemistry, Lodz University of Technology; Łódź, Poland.

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 80 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*.

Open competition for participation in the project *„Chiral nanocomposites with tunable optical properties for more efficient printed optoelectronic devices"* **financed in frame of the First Team FENG programme by the FNP Foundation for Polish Science**

THE REQUIREMENTS TO BE MET BY THE CANDIDATE:
- Completed university studies in chemistry/chemical technology or related fields;
- Ph.D. student status at the Faculty of Chemistry, Lodz University of Technology at the time of commencing the project;
  - REQUIRED COMPETENCIES:
- Good knowledge and research interests in organic chemistry;
- Knowledge of spectroscopic methods and their application to the identification of organic compounds;
- Good command of English, both spoken and written;
- Ability to work in a team, strong motivation and enthusiasm for research and further scientific development, creativity, and independence in planning and conducting experiments.
  - DESIRED COMPETENCIES:
- Research experience in materials chemistry, organic optoelectronics, optical spectroscopy of organic semiconductors, and/or printed electronics;
- Knowledge of photophysical phenomena occurring in organic semiconductors and proficiency in optical spectroscopy methods: absorption and photoluminescence measurements in the UV-Vis-NIR range will be an advantage;
- Knowledge and experience in the fabrication and analysis of organic light-emitting diodes (OLEDs) will be an advantage;

- Knowledge and experience in chiroptical spectroscopy (CD spectroscopy, CPL spectroscopy) and/or advanced solution-based thin film fabrication methods (e.g. inkjet, e-jet printing methods) will be an advantage.

EMPLOYMENT CONDITIONS:
- Gross monthly salary of ~ 6 500,00-6 900,00 PLN
- Employment type: part-time: (0.75 FTE);
- Start date: May 1, 2026;
- 44-month employment contract;
- Full public health insurance, a package of social benefits for Lodz University of Technology employees (including FitProfit/FitSport sports card);
- Career development opportunities: Working in a young, dynamically developing team, access to unique research infrastructure. During the project, there is the opportunity to complete an internship with one of the foreign partners.

SCOPE OF WORK:
- As part of the project, the PhD student (f/m) will conduct research related to the development and optimization of conditions for the synthesis of selected organic dyes. The PhD student's tasks will include identifying new reaction pathways and optimizing reaction conditions. Furthermore, the PhD student (f/m) will be responsible for studies of solubility of the synthesized compounds, constituting the foundations for the ink formulation studies. These inks will be further used for inkjet/e-jet printing of thin films and OLEDs by other group members. The PhD student (f/m) will also be required to prepare partial reports and scientific publications based on the results of the conducted research.

THE APPLICATION MUST CONTAIN:
- A cover letter outlining the interest of the candidate in the doctoral position and project scope;
- A CV (max. 2 pages) describing previous scientific achievements: scientific publications and conference presentations, participation in research projects, internships or other achievements and distinctions;
- Document confirming the intention to apply for admission to the Interdisciplinary Doctoral School at Lodz University of Technology;
- Declaration of readiness to begin implementing the Project tasks no later than 1st May 2026
- Opinion of the current supervisor;
- Application for employment to the Rector of the Lodz University of Technology;
- Copies of degree certificates and transcripts in English;
- Consent to the processing of personal data according to the following statement: for the purpose of the recruitment process, please attach a declaration of consent to the processing of personal data for recruitment purposes should include the following clause: "I consent to the processing of my personal data for the purposes necessary to carry out the recruitment process in accordance 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 (GDPR).";
- Personal questionnaire for a person applying for employment at Lodz University of Technology, as provided in Annex no. 1.1 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
- Data Privacy Statement as provided in Annex no. 1.2 to the OTM-R POLICY - OPEN TRANSPARENT MERIT-BASED RECRUITMENT; Consent to the processing of personal data, as provided in Annex no. 1.3 to the OTM-R POLICY;
- OPEN TRANSPARENT MERIT-BASED RECRUITMENT;
- other documents proving the qualifications.

HOW TO APPLY:
Please send your application to the Department of Molecular Physics, Faculty of Chemistry: w3k31@adm.p.lodz.pl. The application should consist of a **single PDF file** with the subject line **„PhD position (Chemistry) - First Team FENG project"**.

Deadline for applications: 5st March 2026
Planned date of the result announcement: 20th March 2026

CANDIDATE EVALUATION CRITERIA:
- Scientific achievements measured by the quality and quantity of scientific publications or patents,
- Professional experience and its relevance to the project topic,
- Creativity and independence in conducting scientific research,
- International and intersectoral mobility (research internships, work in industry),
- Awards and distinctions received,
- Opinions about the candidate based on the submitted letters of recommendation,
- Language proficiency sufficient for research and communication with project partners.

ADDITIONAL INFORMATION:
The evaluation process will be conducted in two stages. The first stage involves an analysis of submitted documents. In the second stage, selected candidates will be invited to a 20-minute interview, which will be held via Microsoft Teams/Zoom.
Successful candidates will be notified of their advancement to the second stage via email only. If a successful candidate declines the position, the position will be offered to the next candidate on the shortlist. The results of the competition are subject to the approval of the Rector of Lodz University of Technology. We have an internal procedure for reporting legal violations and taking follow-up actions at Lodz University of Technology.

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) ………………………………..
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    ……
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    ……
    (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 …………………………………………………………………………………...............
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(place and date)   (signature of the applicant)

Data Privacy Statement for job candidates

1. The administrator of your data processed as part of the recruitment process is Lodz University of Technology (address: 90-924 Lodz, 116 Żeromskiego St., phone: +48 42 631 29 29), represented by the Rector as the employer.

2. At the Lodz University of Technology you can contact the Data Protection Officer at: iod@adm.p.lodz.pl phone: +48 42 631 20 39.

3. Lodz University of Technology will process your personal data to the extent indicated in the labor legislation for the purpose of the current recruitment procedure (Article 6(1)(b) of the GDPR), while other data, including contact data, on the basis of consent (Article 6(1)(a) of the GDPR), which may be revoked at any time.

4. Lodz University of Technology will process your personal data, also in subsequent recruitment of employees, if you give your consent (Article 6(1)(a) GDPR), which may be revoked at any time.

5. If the documents include data referred to in Article 9(1) of the GDPR, your consent to their processing will be required (Article 9(2)(a) of the GDPR), which may be revoked at any time. (Article 22 of the Labor Code and §1 of the Regulation of the Minister of Family, Labor and Social Policy of December 10, 2018 on employee records).

6. Personal data will be disclosed to persons acting under the authority of the controller and having access to personal data, processing them only on the instructions of the controller, unless required by European Union or Member State law.

7. Your data collected in the current recruitment process will be stored until the end of the recruitment process. In the case of your consent to the use of personal data for future recruitment, your data will be used until the end of the calendar year in which the recruitment process for which your application was submitted ended.

8. You have the right to:
    a) the right to access your data and to receive a copy of it;
    b) the right to rectify (correct) your personal data;
    c) the right to restrict the processing of your personal data;
    d) the right to delete your personal data;
    e) the right to lodge a complaint with the President of the Personal Data Protection Office (to the address of the Personal Data Protection Office: 2 Stawki St., 00 - 193 Warsaw)

Information on data requirement: Your submitting personal data to the extent of Article 221 of the Labor Code is necessary to participate in the recruitment procedure. Your provision of other data is voluntary.

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

Candidate's consent to personal data processing under Article 7 GDPR

I consent to the processing of my personal data for the purpose and to the extent necessary to carry out the recruitment for the job in accordance 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), publ. Official Journal of the EU L No. 119, p. 1. Consent is voluntary. Failure to give consent entails the inability to participate in the recruitment process. Consent may be withdrawn at any time, but without affecting the legality of the processing of personal data carried out on the basis of consent before its withdrawal.

I hereby acknowledge that I have been presented with the salary range for the position referred to in the job advertisement.

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(date and signature of applicant)

* delete as appropriate