



Lodz University of Technology



International Centre for Research on Innovative Biobased Materials -
International Research Agenda

ICRI-BioM

Post Doctoral Researcher in Functional Supramolecular Polymers (Nanostructures and Interfaces Group), International Centre for Research on Innovative Biobased Materials - International Research Agenda

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 to be met by the candidate:

The candidates should have completed their PhD (materials science, physics, chemistry, or related) degree not longer than 7 years prior. Expected skills include:

- Strong research background in one of the domains: materials science/materials chemistry, organic optoelectronics and/or optical spectroscopy of functional materials,
- Expertise with experimental techniques, e.g. spectroscopic methods (UV-Vis absorption and photoluminescence, IR, Raman) and structural/morphological investigation methods (SEM, TEM, AFM and other scanning probe methods),
- Experience in organic (opto)electronics, namely in fabrication and testing of thin-film devices (e.g. organic field-effect transistors, organic light-emitting diodes, organic photodetectors, etc.). Experience in electrical measurements and data analysis,
- Knowledge in chiroptical spectroscopy (electronic circular dichroism, CPL spectroscopy) or advanced thin-film deposition (e.g. inkjet printing) is an additional asset.

2. The terms and conditions of employment:

- Gross monthly salary ~8300 PLN (plus 13th salary),
- Full-time position, starting date from January 2024,
- Contract until the end of 2024 (with conditional renewal until September 2025),
- Full public health insurance and the possibility of professional development: work in a young and dynamic research group. Possible research stays abroad, at project's collaborators.





Lodz University of Technology



International Centre for Research on Innovative Biobased Materials -
International Research Agenda

ICRI-BioM

3. Description of the expected responsibilities and duties:

This post-doctoral position will involve a research project NCN SONATA “Cooperativity in duty of chiroptoelectronics: functional supramolecular polymers on surfaces as electro- and photoactive chiral materials” UMO-2021/42/D/ST5/02786 related to the development of functional materials based on supramolecular polymers. The key aspect will be the elaboration of deposition method of oriented thin films and understanding the structure-property relationship.

4. List of the required documents:

- Application for employment to the Rector of Lodz University of Technology;
- [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](#);
- Copies of MSc/Ph.D. diplomas;
- Cover letter;
- CV (up to 3 pages) which should include: the list of publications and main conference presentations, the list of research projects in which the candidate was involved, potential experience in grant proposal preparation and experience in academia-industry collaboration, contact data to two referees and other key achievements.

5. Interested candidates are requested to e-mail the required documents.

The e-mail should have a subject line – “POST DOCTORAL RESEARCHER in Functional Supramolecular Polymers” **by 30th December, 2023.**

6. Documents should be sent to Dr. Piotr Ślęczkowski, Junior Principal Investigator at ICRI-BioM to the email address: piotr.sleczkowski@p.lodz.pl.

7. The expected date of the announcement of the decision: 2nd January 2024.

8. ICRI-BioM is an International Research Agenda, established within Lodz University of Technology under the Foundation for Polish Science MAB PLUS Program in collaboration with the Max Planck Institute for Polymer Research in Mainz. It aims at the creation of an excellent scientific unit that focuses on combining polymer chemistry with molecular biosystems engineering experimentally and with the aid of computational sciences. It is expected that the collaboration and synergy between these groups, local scientific environment, and international cooperation will lead to breakthrough research in basic and applied sciences.

