

JOB OFFER

Position in the project:	Assistant professor in a group of research staff - Post Doctoral Researchers
Scientific discipline:	Polymer chemistry combined with molecular biosystems engineering and computational sciences,
Job type (employment contract/stipend):	Full- time, temporary employment (end of 2023) with possibility to extend
Number of job offers:	10
Remuneration/stipend amount/month:	• Gross monthly salary in the range 7500-9500 PLN (plus 13th salary assuming employment longer than 6 months) based on the qualifications, with full public health insurance and paid holidays
Position starts:	May 2023
Maximum period of contract/stipend agreement:	Till the end of 2023, with possibility to elongate
Institution:	Lodz University of Technology- International Centre for Research on Innovative Biobased Materials
Project leader:	Dr. Vignesh Kumaravel, Prof. Piotr Paneth
Project title:	International Centre for Research on Innovative Biobased Materials (ICRI-BioM). Project is carried out within the MAB PLUS – International research Agendas programme of the Foundation for Polish Science
Project description:	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.
Key responsibilities include:	<p>I. Computational simulations group:</p> <p>Research in the area of biodegradation of organic pollutants, biotransformation mechanism, structure-activity relationships, and machine learning methods</p> <p>II. Biotechnology group:</p> <p>Research in the area of biochemistry/biotechnology/biodegradable polymers/enzymatic modifications, bioreactors, and bio-based materials.</p> <p>III. Polymer chemistry group:</p> <p>This position will involve a research project at the intersection of organic chemistry and polymer chemistry. Topics include monomer synthesis and polymerization, as well as topics relating to post-polymerization modification.</p> <p>IV. Nanomaterial group:</p> <p>This post-doctoral position will involve a research project on the development of NIR OLEDs based on bioinspired organic molecules.</p>
Profile of candidates/requirements:	The candidates should have completed their Ph.D. degree in materials science, physics, or chemistry not longer than 5 years prior.

Expected skills for particular groups include:

I. Computational simulations group:

Strong research background in one of the domains: computational chemistry, materials science/materials chemistry, and environmental chemistry and toxicology, Expertise with the computational techniques and software with biomolecular systems, and experience in computational toxicology and QSAR, Some knowledge of scripting and programming is desired, but not mandatory.

II. Biotechnology group:

Experience in the synthesis of biopolymers and degradation of synthetic polymers, Mass and high cell density cultivation of microorganisms, Practical experience in molecular biology methods and/or enzyme purification and characterization. Applications of biodegradable or bio-based materials.

III. Polymer chemistry group:

Experience in organic synthesis (preferably also with experience in polymer chemistry), Experience in air-free synthesis techniques, Experience with instruments such as NMR, GC-MS, ESI-MS, FT-IR, GPC/SEC, DSC, TGA, etc.

IV. Nanomaterial group:

Strong research background in one of the domains: materials science/chemistry, surface physics, optical spectroscopy and/or organic optoelectronics, Expertise in: spectroscopic methods (UV-Vis absorption and photoluminescence) and morphological investigation methods (AFM, other SPM methods), Experience in organic optoelectronics: fabrication and testing of thin-film devices (e.g. OFETs, OLEDs), Knowledge in advanced thin-film deposition methods (e.g. inkjet printing and meniscus-guided deposition methods) is an additional asset.

Required documents:

Interested candidates are requested to e-mail the following documents in a single PDF file.

- Application for employment to the Rector of Lodz University of Technology;
- Personal questionnaire for a person applying for employment at Lodz University of Technology (annex 1.1), data privacy statement (annex 1.2), and consent to the processing of personal data (annex 1.3) – all available at [Microsoft Word - Annex no. 1, 2, 3 \(lodz.pl\)](#);
- Copies of 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;
- Research statement (up to 2 pages).

We offer:

Starting date May 2023
Contract until the end of 2023 (with conditional renewal)
Full public health insurance

Please submit the following documents to:	<p>I. Computational simulations group:</p> <p>The e-mail should have the subject line "Post-Doc in Computational Chemistry" to li.ji@p.lodz.pl</p> <p>II. Biotechnology group:</p> <p>The e-mail should have the subject line "Post-Doc in Biotechnology" to vignesh.kumaravel@p.lodz.pl</p> <p>III. Polymer chemistry group:</p> <p>The e-mail should have the subject line "Post-Doc in Polymer Chemistry" to christopher.plummer@p.lodz.pl</p> <p>IV. Nanomaterial group:</p> <p>The e-mail should have a subject line "Post-Doc in Nanomaterials" to piotr.sleczkowski@p.lodz.pl</p>
Application deadline:	April 13th, 2022
For more details about the position please visit (website/webpage address):	lcri-biom.p.lodz.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	https://euraxess.ec.europa.eu/jobs/83047

Processing personal data:

By submitting your application you agree with the following statement:

"I hereby consent to have my personal data processed by the Lodz University of Technology with its registered office at ul. Zeromskiego 116, 90-924 Lodz for the purpose of carrying out a recruitment process and selecting an employee, and concluding a contract for employment at the Lodz University of Technology. I have been informed of my rights and duties