

Łukasiewicz Research Network – PORT Polish Center for Technology Development is a research institute providing strong support for results commercialization. It is a place to carry on diverse research projects ranging from fundamental science to applied research and development in the field of Materials and Life Sciences to develop future technologies. Institute is located at Campus Prace in Wrocław, Poland.

PORT invites applications for a position of

Post-doc in Organic Chemistry in Functional Macromolecules Research Group

Interested in research projects that aim to push the boundaries of polymer science? Our science matters - in Functional Macromolecules Lab, we investigate sequence-defined polymers towards new applications in complex materials.¹ We use monomer sequence programmability to induce life-like functions into synthetic macromolecules. It was demonstrated that DNA function - data storage can be performed by sequence-ordered polymer materials. However, to reach for more sophisticated functions as displayed by natural proteins the knowledge gap on polymers folding has to be filled.²

More information about the research group: szwedalab.com.



Functional
Macromolecules

We offer

- Work in high-impact research projects in the cutting-edge field of sequence-defined macromolecules.
- High technical and scientific know-how and modern, well-equipped laboratories.
- Strong collaboration with national and international academic and industry partners.
- Very broad development prospects between the academic community and the industry sector.
- Further career continuation prospects e.g. the contract extension, own research project, permanent position.
- For foreigners strong support with moving and adaptation to the new system.
- A friendly, inspiring, interdisciplinary environment and social benefits like co-financing for private medical care and holidays.

Responsibilities

- To perform research in the projects on synthesis and characterization of macromolecules within the research scope of Functional Macromolecules Group.
- Writing reports, publication drafts and supervision of master student.

Qualifications

- A Ph.D. degree in Chemistry obtained after 2017 and interest in organic/polymer chemistry.
- Proven experience in organic preparative synthesis, chromatography (HPLC, Flash) and spectroscopy (NMR, FTIR, CD, UV-vis, Fluorescence).
- Deep understanding and experience in 2D NMR in structural characterization e.g. for protein/peptide folding is a strong plus
- Proficiency in English (speaking and writing) and team player attribute
- Pleasure in experimental work, high level of creativity and problem-solving.

To apply for the opportunity

Please send your CV, list of publications, 2 contacts for references, and a half-page cover letter.

Please, send the documents via the e-recruiter application form on the website <https://bit.ly/3pznNqD>

Please include the following statement in your application:

"I hereby give my permission for the processing of my personal data included in the submitted documents for the purposes of recruitment process for the Łukasiewicz Research Network – PORT Polish Center for Technology Development, ul. Stabłowicka 147, 54-066 Wrocław carried out presently or in the future by the company PORT, according to personal data protection law (GDPR). This permission for the processing of my personal data includes also the processing of these data in the future, provided that the purpose of the processing remains the same. I hereby acknowledge that the disclosure of my personal data is voluntary, and that I have been informed of the right to access my personal data, and to correct such data."

¹ R. Szweda, M. Tschopp, O. Felix, G. Decher, J.-F. Lutz "Sequences of sequences: spatial organization of coded matter through layer-by-layer assembly of digital polymers", *Angew Chem Int Ed*, 2018, 130, 16043-16074.; N. F. König, A. Al Ouahabi, L. Oswald, R. Szweda, L. Charles, J.-F. Lutz "Photo-editable macromolecular information" *Nature Comm.* 2019, 10 (1), 1-9.

² R. Szweda Grant award "Sequence-defined macromolecules of controlled folding" Project No 2018/31/D/ST5/01365 funded by Polish National Science Centre