ref. no RS/IB/2020

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 Pracze in Wrocław, Poland.

PORT invites applications for a position of

National Science Centre Scholarship

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]

Functional Macromolecules

More information about the research group: szwedalab.com.

We offer

- Master/PhD project supervision
- High level of technical and scientific know-how and work in modern and well-equipped laboratories.
- Training is synthesis and characterization of polymers
- A friendly and inspiring environment within international team
- Renumeration and duration of fellowship to be negotiated
- Work in the project ConFold funded by National Science Center No 2018/31/D/ST5/01365

Qualifications

- Student (4-5 year or PhD) in Chemistry and interest in organic/polymer chemistry.
- Proficiency in English and team player attribute.
- Pleasure in experimental work and high level of creativity, problem solving.

Responsibilities

• To perform research projects on synthesis and characterization of macromolecules within research scope of Functional Macromolecules Group.

To apply for the opportunity

Please send your CV and half-page cover letter to Roza.Szweda@port.lukasiewicz.gov.pl with title NCN Scholarship

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