

PhD student - scholarship holder in a research project at
Faculty of Chemical Technology, Poznan University of Technology

Requirements:

- Master's degree in chemical sciences, biological sciences or related discipline,
- Documented research activity evidenced by published or accepted scientific papers
- Experience in laboratory work and knowledge of basic analytical, spectroscopic and microbiological techniques,
- Knowledge and experience of the basics of the project's research topic, including working with polymers,
- Fluency in written and spoken English,
- Independence, high motivation to work, problem-solving skills,
- Ability to work in a team.

Tasks:

Recruitment is for the OPUS 21 project entitled "Multilevel relationships between the presence of micro/nanoplastics (MNP) in soil and the amount and availability of water as well as sorption of model xenobiotics in terms of biodegradation kinetics and changes in soil microbial communities" funded by the National Science Centre.

The PhD student will be responsible for:

- Preparation and characterization of micro/nanoplastics
- Aging processes of microplastics using Fenton and aging chamber methods
- Sorption analysis of xenobiotics (e.g. estrogens) on pristine and aged microplastics, determination of adsorption kinetics and isotherms
- Determination of the physicochemical properties of soils
- Sorption analysis of xenobiotics (e.g. estrogens) in soils and in soils amended with pristine and aged microplastics, determination of adsorption kinetics and isotherms
- Leaching experiments of xenobiotics (e.g. estrogens) from the soil profile amended with pristine and aged microplastics during artificial rain simulation
- Determination of the long-term effects of co-occurrence of microplastics and xenobiotics (e.g., estrogens) on the soil microbiome
- Preparation of scientific report based on the above studies.

We are offering:

- Work in a rapidly developing research team,
- The opportunity to develop skills and gain experience in a wide range of chemistry and biology,
- The opportunity to participate in international conference and research internships,
- Support and a friendly working environment.

NCN project: OPUS-NZ

Deadline: 10.01.2026, 12:00 CET

Employment conditions:

- PhD scholarship in the amount of: 4 000 PLN brutto/month
- employment period: February 2026 - September 2026

Additional info:

Interested persons are requested to send:

1. Curriculum vitae including a description of scientific achievements, information about awards, scholarships, internships abroad, participation in scientific conferences.
2. Motivation letter with a description of techniques used in research work.
3. A copy of the master's degree with a copy of the diploma supplement (or a certificate of graduation/graduation card).
4. An abstract of the master's thesis.
5. A letter of reference from the supervisor and/or academic supervisor working directly with the candidate.

Additional information can be obtained from the project leader: prof. dr hab. inż. Łukasz Chrzanowski

Please send your application and questions by e-mail to: lukasz.chrzanowski@put.poznan.pl (with the title "PhD student position OPUS 21").

Applications must be accompanied by the statements: I consent to the processing of my personal data for the purposes necessary for the recruitment process (in accordance with the Act of 10 May 2018 on personal data protection (Journal of Laws of 2018, item 1000) and in accordance with the Regulation of the European Parliament and of the Council (EU) 2016/679 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 (RODO)).

Poznan University of Technology reserves the right to close the competition without selecting a scholarship holder.

Each candidate will be informed about the decision by e-mail.