

Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences

Open position for a PhD candidate in the OPUS LAP PHABIO project No. UMO-2024/55/I/ST8/02722

Requirements:

- completed Master's degree in chemistry, biology, biotechnology, or a related field;
- strong background in chemistry, biology, or biotechnology;
- laboratory experience in experimental work will be considered an additional asset;
- familiarity with analytical techniques, such as spectroscopy, chromatography, or electrophoresis, will be an advantage;
- ability to analyse data and solve problems;
- ability to work collaboratively in a research environment;
- good command of English, at least at the B2 level.

Description of tasks:

Research work within the OPUS LAP PHABIO project No. UMO-2024/55/I/ST8/02722. The research will focus on the design and characterization of deep eutectic solvents (DES), separation processes and PHA extraction using ATPS systems, as well as bioprocesses and biomass processing within the biorefinery concept.

As part of the project, the PhD candidate will:

- conduct experiments related to the synthesis and characterization of deep eutectic solvents (DES);
- participate in the optimization of DES composition and synthesis conditions, as well as their applications in bioprocessing;
- contribute to the development and implementation of extraction processes for polyhydroxyalkanoates (PHA) using DES and ATPS systems;
- participate in fermentation processes related to the production and recovery of PHA from biomass;
- support the development of analytical methods for evaluating extraction efficiency and solvent properties;
- analyse and process experimental results;
- contribute to the preparation of scientific publications and project documentation.

Employment conditions:

- Place of research: Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, ul. Niezapominajek 8, 30-239 Kraków, Poland;
- The scholarship will be awarded for a period of 36 months in accordance with the Regulations on Awarding Scientific Scholarships in Research Projects Funded by the National Science Centre; the final 12 months will be financed from the Institute's own funds.
- Expected starting date: 1/10/2026

Additional information:

Required documents (to be submitted electronically, marked: PhD candidate for the OPUS LAP PHABIO project UMO-2024/55/I/ST8/02722):

- Cover letter;
- CV including a list of scientific achievements (publications, patents, distinctions, awards, participation in projects). The CV should include the following statement: “I consent to the processing of my personal data for the purposes necessary to carry out the recruitment process (in accordance with the applicable Personal Data Protection Act).”;
- Master’s degree diploma or a document confirming eligibility to enter doctoral school education;
- Language certificate (if available);
- Signed GDPR information clause (PDF document: Information obligation for persons taking up employment/cooperation).

Application deadline: 26/6/2026

Application form: e-mail: maciej.guzik@ikifp.edu.pl

Competition results announced by: 23/7/2026

Detailed information regarding recruitment to the doctoral school is available at <https://kisd.ifj.edu.pl>.