

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

Open position for a PhD candidate in the OPUS LAP PHA-CURE project No. UMO-2024/55/I/ST8/02132

Requirements:

- completed Master's degree in materials engineering, biomedical engineering, biotechnology, chemistry, biology, or a related field;
- wet-lab experience will be considered an additional asset;
- basic knowledge of sterile work in microbiological cultivation;
- basic knowledge of molecular cloning techniques and recombinant protein expression;
- basic knowledge of organic and analytical chemistry techniques;
- experience in materials design and fabrication or in microbiological cultivation will be an advantage;
- ability to analyse and interpret research results;
- good command of English, at least at the B2 level; knowledge of Polish will be considered an additional asset.

Description of tasks:

Research work within the OPUS LAP PHA-CURE project No. UMO-2024/55/I/ST8/02132. The research concerns the design and biofunctionalisation of PHA/P(3HN)-based biomaterials for chronic wound treatment, advanced physicochemical, surface and structural characterization of biomaterials, and investigation of their effects on biological processes.

As part of the project, the PhD candidate will:

- participate in the design and recombinant expression of proteins;
- support the development of feeding and protein purification strategies;
- contribute to the characterization of the obtained proteins using analytical and structural methods;
- perform or support fermentation processes for the biosynthesis of polyhydroxyalkanoates (PHA) and their isolation;
- participate in the preparation and characterization of protein-PHA composites using advanced surface and structural techniques;
- analyse experimental results and co-participate in planning subsequent experiments;
- 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 PHA-CURE project UMO-2024/55/I/ST8/02132**):

- 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, 23.59

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>.