

Post-doc Position at Poznan University of Technology, Poland

Project financed by National Science Centre, Poland: call SONATA 20

Project name: SWIFT – In-depth study of the Sustainable conversion of organic Waste fraction Into bio-oils by Fermentation Technology using bacterial-yeast microbiomes (PI: Anna Duber, PhD)

Country: Poland

Organisation/Company: Poznan University of Technology,

Department: Institute of Environmental Engineering and Building Installations

Position: Post-doc

Qualifications:

1. PhD degree in Biotechnology/ Chemistry/ Chemical Technology/ Chemical engineering/ Environmental engineering or a closely related field conferred in the years 2013-2025. This period may be extended by a time of long-term (in excess of 90 days) documented sick leaves or rehabilitation leaves granted on account of being unfit to work. In addition, the period may be extended by the number of months of a childcare leave granted pursuant to the Labour Code and in the case of women, by 18 months for every child born or adopted, whichever manner of accounting for career breaks is preferable. For researchers with multiple PhDs, the date of the first PhD award is deemed the reference date.
2. Experience in fermentation processes, downstream processing methods, product separation; Interest in and/or experience with gas chromatography, especially GC-MS;
3. Aptitude for conducting scientific experimental research, organisational skills, strong motivation for scientific work, creativity in problem-solving, independence, ability to work in a team, and a desire for self-improvement
4. Strong spoken and written communication skills; Good organisation skills and analytical thinking;
5. Proven early career track of records;
6. English language is expected to be at least at B2/C1 level.

What do we offer:

A chance to join in a driven and young team Bioref Research Group (<https://bioref.put.poznan.pl/>) focused on development in the field of environmental biotechnology and recovery of valuable compounds from organic waste in accordance with the assumptions of the circular economy; mutual consultations and support; participation in national and international conferences.

Project description:

In this project the primary objective is an in-depth evaluation of the feasibility of agro-industrial organic by-products and wastewater valorisation into microbial bio-oils through novel biotechnological strategies. In the bioprocesses type strains of a non-conventional oleaginous yeast (e.g. *C. curvatus*, *L. lipofer*, *R. mucilaginosus*) and open culture microorganisms will be used. Natural abilities of the oleaginous microorganisms of high lipid-accumulation under a steered engineered environment will be investigated, followed by leading-edge analyses of created bacterial-yeast microbiomes, and downstream processing of achieved bio-oils to be developed as a final step. The crucial part aim to develop an ex-situ recovery pipeline of produced lipids by investigating the impact of different separation methods on the lipids yields and quality with subsequent lipids' profile determination.

Main tasks: work conceptualization, performing cultivation processes, analytical analyses, downstream processing and biooils separation, lipids profiles analyses, papers preparation, results dissemination to scientific community in the field.

Duration: 12 months, with the possibility to be extended up to 36 months

Type of Contract: Temporary

Job Status: Full-time

Hours Per Week: 40

Offer Starting Date: 1 Oct 2025

Remuneration: ~ 8600 PLN gross /month .

Application Instructions:

All applications must be submitted by email to: anna.duber@put.poznan.pl,

1. Curriculum vitae (CV)
 - Detailing relevant professional experience, academic background, and specific skills or knowledge related to the position
 - Including a list of publications, patent applications, participation in scientific conferences, scholarships, prizes and other achievements
2. Motivation letter
 - A brief explanation of your motivation to join the project.
 - Your research interests and how they relate to your previous studies and future goals.
 - A description of the type of research you would like to pursue within the project.
3. Recommendation letter

Declaration of consent to the processing of personal data for recruitment purposes with the following content:
"I consent to the processing of my personal data contained in the application documents by the Poznań University of Technology based in Poznań for the purpose of conducting the current recruitment procedure."

Email title: Sonata20_Post-doc_Surname, Name

Selection Procedure:

1. Documents evaluation - formal assessment of the submitted documents according to the procedure complying the rules for employment in research projects funded by the NCN. Candidates who meet the formal requirements and predefined criteria will be selected for the interview.
2. Interviews - selected candidates will be invited via email to an online interview conducted by the recruiting organization via video conference.
4. Feedback and Admission Support - Candidates who are not selected will receive a reply.
The successful candidate will receive support throughout the administrative procedures.

Application Deadline: 31 August 2025 - 23:59 (Europe/Berlin)

Call decision date: 19 September 2025

We reserve the right not to select any candidate if none meets the required criteria. In such a case, the recruitment process may be extended accordingly.

Important:

It is the applicant's responsibility to ensure that the application is complete and complies with all the instructions provided in this advertisement.

Information clause

In accordance with Art. 13 of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46 /EC (hereinafter referred to as GDPR) we inform that:

1. The administrator of your personal data is **Poznan University of Technology** located at **Pl. Marii Skłodowskiej - Curie 5, 60-965 Poznań** e-mail: biuro.rektora@put.poznan.pl, phone: 61 665 3639.
2. Contact details of the Data Protection Inspector - Piotr Otomański, e-mail: iod@put.poznan.pl,
3. Your personal data will be processed in order to carry out the recruitment process; the legal basis for the processing of your personal data is voluntarily and knowingly expressed by your consent according to art. 6 section 1 (b) GDPR.
4. Personal data will not be passed on to processing entities (**art. 28 section 1 GDPR**). They can be only transferred only to bodies authorized by law.
5. Personal data will be kept for the period of the recruitment process or until you withdraw your prior consent, but its withdrawal does not affect the legality of the processing which was carried out on the basis of consent before its withdrawal.
6. You have the right to access your personal data, the right to rectify them, the right to transfer them, and if applicable, also to remove them, to limit processing and the right to object to processing.
7. You have the right to lodge a complaint with the President of the Office for Personal Data Protection when you feel that the processing of your personal data violates the provisions of the General Data Protection Regulation of 27 April 2016 (GDPR).
8. Providing by you your personal data is voluntary, however, the consequence of not providing personal data may lead to inability to consider your candidacy for a vacancy.
9. Your data will not be processed in an automated way, including profiling.