



Instytut Katalizy i Fizykochemii Powierzchni
im. Jerzego Habera
Polskiej Akademii Nauk



HR EXCELLENCE IN RESEARCH

KSN 9/2021

Kraków, 15.11.2021

ASSISTANT PROFESSOR in the group of Theoretical and Experimental Biocatalysis

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
Chemistry> biochemistry
Biological science> other (microbiology, molecular biology)
- Researcher profile: R2, R3
- Deadline for applications: 14.01.2022, 3:00 pm GMT+1
- Place: Poland, Kraków
- Type of Contract: temporary (12 months)
- Job Status: Full-time
- Working hours/week: 40
- Start of employment: 01.03.2022
- Key Words: anaerobic bacteria, expression systems, genetic engineering

Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences invites applications for an ASSISTANT PROFESSOR (adjunct) in the Theoretical and Experimental Biocatalysis group conducting the project entitled "Structure and function of fumarate-adding glycol radical enzymes: biochemistry, modelling and application".

The candidates who meet the conditions stated in the act "Ustawa o Polskiej Akademii Nauk" dated 30 April 2010 (Dz.U. 2018 poz. 1475 z póź. zm.), art 89. Ust. 3 for the position of ASSISTANT PROFESSOR are encouraged to apply for the position.

The Candidate will take part in research conducted by the group of Theoretical and Experimental Biocatalysis, which focuses on glycine radical enzymes catalysing hydrocarbon addition to fumarate. The research is conducted in the Polish-German Beethoven Life project FAEREACTION.

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Nr konta: Bank Gospodarstwa Krajowego
PL 36 1130 1150 0012 1186 5820 0004
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This project aims at the investigation of the biochemistry and reactions mechanisms of a class of novel enzymes that catalyse the radical-based addition of fumarate to a number of highly recalcitrant compounds, like hydrocarbons. These fumarate-adding enzymes (FAE) which form a subclass of the glycy radical enzymes will be studied with a combination of experimental and theoretical tools. Furthermore, we intend to develop new whole-cell biotransformation systems involving FAE.

The assistant professor will be involved in the experimental research in the field of microbiology and molecular biology aiming at:

- Further development of expression system for FAE enzymes in *Aromatoleum evansii*,
- Modification *A. evansii* genome to express FAE enzymes,
- Development of the whole-cell biotechnological systems utilizing FAE enzymes expressed in *A. evansii*.

Required education:

Ph.D. title in microbiology, biochemistry, biotechnology or related area.

Skills/Qualifications confirmed by paper from JCR list:

- experience in molecular biology, development of overexpression systems (both plasmid and genome transformation of bacteria),
- experience in microbiology,
- experience in the development of bioprocesses, monitoring bacterial growth and bioprocess optimization,
- experience in microbiology of anaerobic bacteria will be an additional asset (e.g. anaerobic cultivation methods, work in glove-box).

Skills/Qualifications confirmed in opinion of senior supervisor:

- teaching student
- writing reports,
- writing papers.

Specific requirements:

1. An application.
2. Consent to the processing of personal data for the needs necessary to carry out the recruitment process in accordance with the Act of 29 August 1997 on the protection of personal data (t.j. Dz. U. z 2016 r. poz. 922, z 2018 r. poz. 138, 723.) and fill in the



form „Consent to the processing of personal data” confirming acquainting with its content. The form is available on the institute website [\[FORM\]](#).

3. A copy of the scientific degree certificate.
4. Full CV (including information on maternal leaves, voluntary work and periods of work in the industry).
5. At least one opinion on the Candidate given by an independent researcher (preferably senior supervisor).
6. List of scientific achievements (scientific papers, patents, patent applications, grants, etc.).
7. Copies of the 3 best publications connected to the topic of the call.
8. The Candidate’s report on his/her scientific interests and research aims taking into consideration objectives of the project (an A4 page).

Languages:

Fluent in written and spoken English. Knowledge of Polish or German will be an additional asset.

Research experience:

4-10 years

Additional information:

Remuneration:

The gross salary will be at least **8 300 PLN/month** (approx. **1800 euro/month**) depending on the Candidate’s experience.

Eligibility criteria:

- Ph.D. degree in microbiology, biochemistry, biotechnology or related area, obtained not earlier than 7 years before the engagement in the project (this period might be longer due to family reasons (according to NCN rules).
- Documented achievements confirmed by publications from the JCR list.

Selection process:

Applications should be sent in the electronic form to: sekretariat@ikifp.edu.pl with the subject title „ADJUNCT BTE KSN 9/2021”



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Deadline for applications: **14.01.2022** at **3:00 pm GMT+1**. The competition will be settled by **28.02.2022**. The candidates will be notified of the results.

After the initial pre-selection of applications, the recruitment commission may request an additional online interview with selected candidates.

The employment will be proceeded with accordance with the rules of the Labour Code for **12 months**.

Additional information:

The Institute has been adapted to the needs of the disabled. The Institute does not provide accommodation. The recruitment process is conducted according to [OTM-R policy](#).