



KSN 2/2023

Kraków, 12.01.2023

Assistant 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:
 1. biochemistry, structural biology, molecular biology, instrumental analysis
- Researcher profile: R2
- Deadline for applications: 13.02.2023, 3:00 pm GTM+1
- Place: Poland, Kraków
- Type of Contract: 18 months
- Job Status: Full-time
- Working hours/week: 40
- Start of employment: 1.04.2022
- Key Words: protein crystallography, molecular biology, protein production and purification

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an Assistant in the Theoretical and Experimental Biocatalysis group. 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. 4 for the position of Assistant are encouraged to apply for the position. The Assistant will be involved in the implementation of research statutory tasks as well she/he will work in the NewCat project.

The Candidate will take part in research conducted by the group of Theoretical and Experimental Biocatalysis, which focus on production, purification, crystallization and determination of the crystal structure of selected proteins (native forms and mutants) from the group of non-heme iron-dependent enzymes and copper-dependent oxygenases.

In particular the Assistant will be responsible for:

- production, purification, crystallization of selected metalloenzymes, native forms and mutants
- applying for access to research synchrotron lines
- conducting diffraction measurements on synchrotron lines
- solving and refining the crystal structures of the studied proteins
- conducting biochemical tests for the studied enzymes, e.g. enzyme activity tests (HPLC, UV-VIS, LC-MS) preparation of samples enriched in ⁵⁷Fe for Mossbauer measurements, preparation of samples for rapid enzyme kinetics measurements
- preparation of scientific publications, presentation of results at conferences

- taking care of interns and doctoral students

Required education:

PhD in chemistry or biology

Skills/qualifications:

- experience in analytical biochemistry and crystallography of metalloenzymes documented by publications from the JCR list (0-10 pts). Minimum number of points required: 5.
- experience in molecular biology (development of genetic constructs, introduction of mutations into genes), production and purification of recombinant proteins (0-10 pts). Minimum number of points required: 5.
- experience in conducting diffraction measurements for proteins on synchrotron lines, solving and refining crystal structures (0-10 pts). Minimum number of points required: 5.

The minimum number of points of the successful Candidate: 15.

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.) [[FORM](#)] and “Information obligations – recruitment of a perspective employee/collaborators” confirming acquainting with its content [[FORM](#)] (both documents filled and signed by the Candidate);
3. A copy of 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.
6. List of scientific achievements (scientific papers, patent, patent applications, grants, etc.).
7. Copies of 3 best publications connected to the topic of the call.
8. The Candidate’s report on his/her scientific interests and research aims (an A4 page).

Languages:

English



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



HR EXCELLENCE IN RESEARCH

Research experience:

4-10 years

Additional information:

Remuneration:

The gross salary will be at least **4000 PLN/month** depending on the Candidate's experience.

Eligibility criteria:

- Doctoral degree in the discipline of chemical or biological sciences
- Documented achievements confirmed by publications from the JRC list or patents.

Selection process:

Applications should be sent in electronic form to: sekretariat@ikifp.edu.pl with the subject title „Assistant - Biocatalysis KSN 2/2023”.

Deadline for applications: **13.02.2023** at **3:00 pm GTM+1**. The competition will be settled by **27.02.2023**. The candidates will be notified of the results.

The employment will be proceeded with accordance to the rules of Labour Code for 18 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](#).