



KSN 9/2023

Kraków, 25.07.2023

Assistant in the group Soft Matter Nanostructures

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
Chemistry > physical chemistry,
- Researcher profile: R2, R3
- Deadline for applications: 25.08.2023, 3:00 pm GTM+1
- Place: Poland, Kraków
- Type of Contract: 12 months with the possibility of extension
- Job Status: Full-time
- Working hours/week: 40
- Start of employment: preferred on 01.11.2023
- Key Words: Electrochemistry, corrosion, electrochemical deposition of metal and composite coatings, metal alloys

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an assistant in the Soft Matter Nanostructures 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 Candidate will take part in research conducted by the group of Soft Matter Nanostructures and Electrochemistry and Corrosion Laboratory, which focuses on electrochemistry, corrosion, electrodeposition of metals and alloys, and anodization.

In particular the Assistant will be responsible for:

- research on corrosion of metal alloys (mainly Al, Mg, and Ti alloys) in aqueous media simulating industrial and physiological conditions of exploitation;
- development of methods for deposition of functional coatings on metal and alloy surfaces for their enhanced corrosion resistance;
- electrochemical deposition of metallic coatings (for example, Cu, Ni, Zn and alloys thereof) and composite materials, and examination of their physicochemical properties;
- conducting experiments in salt spray chambers;



- analysis of the results and preparation of scientific publications.

Required education:

PhD's degree (or equivalent) in one of the following disciplines: chemistry, chemical engineering, material science or similar.

Skills/qualifications:

1. practical experience in electrochemical deposition of metallic and composite coatings, supported by JCR publications (0–20 points);
2. practical experience in the field of corrosion of metal alloys, supported by JCR publications (0–20 points);
3. practical experience in electrochemical measurements, in particular electrochemical impedance spectroscopy and voltammetry, supported by JCR publications (0–20 points);
4. scientific knowledge gained in a foreign scientific unit during an internship (0–5 points, 1 point per 1 month of the internship);
5. practical experience in the operation of programmable potentiostats, high-voltage power supplies, equipment for X-ray diffraction, X-ray fluorescence and salt spray measurements (0–15 points).

The minimal number of points required for admission: 40.

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 fill in the form „Consent to the processing of personal data” confirming acquainting with its content [[FORM](#)]. The form is available on the institute [website](#).
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. The Candidate's report on his/her scientific interests and research aims (an A4 page).



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



HR EXCELLENCE IN RESEARCH

Languages:

Fluent in written and spoken English.

Research experience:

1-4 years in physical chemistry.

Additional information:

Remuneration:

The gross salary will be at least **4300 PLN/month** depending on the Candidate's experience.

Eligibility criteria:

PhD's degree (or equivalent) in one of the following disciplines: chemistry, chemical engineering, material science or similar;

Scientific achievements supported by JRC publications or patents.

Selection process:

Applications should be sent in electronic form to: sekretariat@ikifp.edu.pl with the subject title „NMM KSN 9/2023”

Deadline for applications: **25.08.2023 at 3:00 pm GTM+1**. The competition will be settled by **16.09.2023**. The candidates will be notified of the results.

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