



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



HR EXCELLENCE IN RESEARCH

KSN 5/2024

Kraków, 14.10.2024

Adjunct 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: 15.11.2024, 3:00 pm GTM+1
- Place: Poland, Kraków
- Type of Contract: 18 months with the possibility of extension
- Job Status: Full-time
- Working hours/week: 40
- Start of employment: preferred on 01.01.2025
- 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 adjunct 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 adjunct 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 adjunct will be responsible for:

- research on corrosion of metal alloys (mainly Al, Mg, and Zn 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 of experiments and preparation of scientific publications.

ul. Niezapominajek 8, 30-239 Kraków, Polska
tel. +48 12 639 51 01, +48 12 425 19 23
fax +48 12 425 19 23

Nr konta: Bank Gospodarstwa Krajowego
PL 36 1130 1150 0012 1186 5820 0004
NIP: 6750001805, REGON: P-000326351

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 (especially Mg and Al), 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 (1 point per 1 month of the internship; 6 points maximum);
5. documented experience of being a leader of a project, granted on an open call basis (10 points per 1 project, 20 points maximum);
6. 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: 70.

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.).



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7. The Candidate's report on his/her scientific interests and research aims (an A4 page).

Languages:

Fluent in written and spoken English.

Research experience:

5-10 years in chemistry, chemical technology, material science or similar.

Additional information:

Remuneration:

The gross salary will be at least **7000 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 5/2025”

Deadline for applications: **15.11.2024 at 3:00 pm GTM+1**. The competition will be settled by **22.11.2024**. The candidates will be notified of the results.

The employment will be proceeded with accordance to the rules of Labour Code for 18 months.

In the case of candidates with equivalent qualifications or a need for further clarification of information provided selected candidates will be asked to participate in an on-line interview.

Additional information:

The Institute has been adapted to the needs of the disabled. The Institute does not provide accommodation.

Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, awarded the HR Excellence in Research Award by the European Commission in recognition of ongoing

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commitment to adopt the principles of The European Charter for Researchers (ECR) and a Code of Conduct for the Recruitment of Researchers (CCRR) fully supports and applies open, transparent and merit-based recruitment (OTM-R) procedures. The Institute is dedicated to implementing and strengthening the [OTM-R policy](#) as one of the pillars of the ECR and CCER and one of the crucial components of the Human Resources Strategy for Researchers ([HRS4R](#)).