



KSN 2/2024

Kraków, 18.03.2024

Assistant in the group Soft Matter Nanostructures

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
Engineering > materials science;
Chemistry > physical chemistry.
- Researcher profile: R2, R3
- Deadline for applications: 19.04.2024, 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: 01.05.2024
- Key Words: Corrosion , synthesis, electrochemistry, pigments

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 corrosion protection, electrochemistry, anodization, and recycling.

In particular the Assistant 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 chemical and electrochemical recycling of valuable materials (rare-earth elements, Cu, Zn, Mn, Li, etc.);
- analysis of protective coatings by Fourier-transform infrared spectroscopy (FTIR) and X-ray diffraction (XRD) techniques;
- conducting experiments in salt spray chambers;
- analysis of the results and preparation of scientific publications.



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



HR EXCELLENCE IN RESEARCH

Required education:

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

Skills/qualifications:

1. practical experience in chemical or electrochemical recycling of materials and industrial waste, preferably supported by JCR publications (0–20 points);
2. practical experience in the field of corrosion and obtaining of corrosion protection materials (0–20 points);
3. practical experience in performing Fourier-transform infrared spectroscopy and X-ray diffraction measurements, and evaluation of their results (0–10 points);
4. practical experience in salt spray measurements (0–10 points).

The minimal number of points required for admission: 20.

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).

Languages:

Fluent in written and spoken English.

Research experience:

Minimum 4 years in material science, physical chemistry, or similar.

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Additional information:

Remuneration:

The gross salary will be at least **4685 PLN/month** depending on the Candidate's experience.

Eligibility criteria:

PhD's degree (or equivalent) in one of the following disciplines: material science, chemical engineering, chemistry, 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 2/2024”

Deadline for applications: **19.04.2024 at 3:00 pm GTM+1**. The competition will be settled by **26.04.2024**. 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](#).