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

HR EXCELLENCE IN RESEARCH

FORM FOR EMPLOYERS

INSTITUTION . Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences

CITY . Krakow

POSITION Assistant professor (adjunct) (M/F/X)

DISCIPLINE .

- Electrochemistry
- Atomic force microscopy

POSTED November 2nd 2026

EXPIRES December 2nd 2026, 3:00 pm GMT+1

WEBSITE www.ikifp.edu.pl

KEY WORDS atomic force microscopy, electrochemistry, metal alloys, corrosion, microstructure of materials

DESCRIPTION (field, expectations, comments):

The Jerzy Haber Institute of Catalysis and Surface Chemistry of the Polish Academy of Sciences in Krakow announces a competition for the position of Assistant professor in the group Soft Matter Nanostructures for the implementation of the project FEM AFM (FEMP.01.04-IZ.00-0275/24) "Expansion of the Equipment Infrastructure of the Electrochemistry and Corrosion Laboratory at the Jerzy Haber Institute of Catalysis and Surface Chemistry of the Polish Academy of Sciences (IKiFP PAN), to Enable the Development of New Products in the Fields of Sustainable Energy, Metallic Materials, and Biomedical Materials," project no.: FEMP.01.04-IZ.00-0275/24, co-financed by the European Union under the “European Funds for Małopolska 2021–2027” program.

The competition is open to persons who meet the conditions set out in the Act on the Polish Academy of Sciences of 30 April 2010 (Journal of Laws 2020, item 1796, as amended), Article 89, Section 3.

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The candidate will participate in research on the design of protective surface coatings, investigation of corrosion processes, and other topics in electrochemistry using scanning probe microscopy techniques. Research will be conducted in the Electrochemistry & Corrosion Laboratory, which is a part of Soft Matter Nanostructures Group.

In particular, the candidate's responsibilities will include:
• conducting research on the role of surface microstructure in the initiation and propagation of localized corrosion in advanced metal alloys (primarily Al, Mg, and Zn alloys);
• conducting research on the analysis of the mechanical properties of polymer nanostructures and composite materials;
• conducting research on other materials using an atomic force microscope;
• performing operational trainings for potential users of AFM;
• data analysis, preparing reports, and writing of publications.

Required education level:

The candidate should hold a PhD degree in chemistry, chemical engineering, or a related field.

Skills / qualifications:

• experience in electrochemistry, particularly in corrosion of metals;
• experience in the development of protective coatings for metallic alloys;
• experience in atomic force microscopy (AFM) methods.

Detailed requirements

The candidate's application should include:

1. cover letter
2. copy of the diploma conferring the doctoral degree
3. full curriculum vitae
4. list of scientific achievements
5. self-report - maximum 1 A4 page

Required languages

- English (B2)

Required research experience

4-10 years.

Additional information
Salary:
Gross salary will amount to 7 100,00 - 8 000,00 PLN per month depending on the candidate's experience.

Qualification criteria

Criterion	Points from	Points to	Minimum
practical experience, supported by publications listed in the JCR, in research on the corrosion of Al, Mg, or Zn alloys. The candidate must provide a significant contribution (first author and/or corresponding author) in at least 5 JCR publications	0	7	5
practical experience, supported by publications indexed in the JCR, in the use of atomic force microscopy to analyze the electrochemical and mechanical properties of metal alloys, polymer nanostructures, and composite materials	0	5	3
practical experience in characterization of metal alloys, polymer nanostructures, and composite materials using electrochemical methods (electrochemical impedance spectroscopy, voltammetry) and spectroscopic methods (Raman spectroscopy, FTIR)	0	4	2
scientific mobility and experience in conducting research or participating in research internships as part of international cooperation (at the time the research was conducted or the internship took place).	0	2	1
experience in being principal investigator/coordinator of research projects	0	2	1

Maximum number of points: 20.

Selection process

Applications for the competition should be submitted electronically via the platform https://praca.ikifp.edu.pl.
The deadline for submitting documents is **2026-12-02 03:00 pm GMT+1**. The competition will be concluded by **2026-12-31**. Candidates will be informed about the outcome.
Employment will be offered for a period of **12 months** in accordance with applicable regulations.
In the case of candidates with equivalent qualifications or if clarification of submitted information is needed, selected candidates may be invited to an online interview.

Additional information

The Institute has been adapted to the needs of persons with disabilities. The Institute does not provide accommodation.

The Jerzy Haber Institute of Catalysis and Surface Chemistry of the Polish Academy of Sciences, awarded the HR Excellence in Research Award by the European Commission, fully supports and applies the principles of open, transparent and merit-based recruitment (OTM-R). The Institute fully endorses and follows the OTM-R policy as one of the pillars of the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers, as well as a key element of the HR Strategy (HRS4R).

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