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

HR EXCELLENCE IN RESEARCH

KSN 3/2023 Krakow, 23.01.2023

Call for Research Assistant position in the Nano and Microscale Systems research group

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
  - Chemistry > physical chemistry
  - Physics > biophysics
  - Engineering > materials engineering
- Researcher profile: R2, R3
- Deadline for the applications: 22.02.2023, at 15:00 GTM+1
- Place: Poland, Krakow
- Type of Contract: 12 months with the possibility of an extension
- Job Status: full time
- Working hours/week: 40
- Start of employment: 01.04.2023
- Keywords: AFM, atomic force microscopy, optical microscopy, biophysics, force spectroscopy, materials engineering, "bio" systems

Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland invites applications for a position of a Research Assistant in the Nano and Microscale Systems research 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 Research Assistant are encouraged to apply for the position.

The candidate will participate in the research conducted in the Nano and Microscale Systems group, in particular, the candidate will be involved in research using following methods: AFM, optical microscopy, dynamic light scattering, viscosity measurements of “bio” systems. Candidate will also participate in the development of measurement methods and collaborate in the interpretation of results based on theoretical models and computer simulations.

In particular, the Research Assistant will be responsible for:

- atomic force microscopy and force spectroscopy measurements
- measurements of physicochemical and mechanical properties of "bio" systems
- participating in research planning, archiving, processing experimental data, preparing publications for high-impact journals
- presentation of research results at thematic national and international conferences
- reviewing and working with bibliographical databases (e.g. Mendeley);
- supervising students and doctoral students in the research group.
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Required education level:

The candidate should hold a PhD in field of chemistry, physics or related discipline.

Skills/Qualifications

- Research experience in the area of AFM measurements, and/or force spectroscopy, confirmed by publications in JCR-listed journal with significant contributions from the candidate, as well as conference presentations of national and international scope (0-30 points). Minimum required number of points. 5;
- experience in research projects as a contractor and/or principal investigator (0-5 points).
- scientific experience gained in a foreign scientific unit as part of an internship (0-5 points) 1 point for each 3 months of internship
- Practical knowledge of the following research techniques: atomic force microscopy, force spectroscopy, dynamic light scattering. (0-15 points); Minimum score. 5.
- Experience in working with “bio” systems (0-7 points)
- Experience in theoretical analysis of atomic force microscopy data will be an asset (0-10 points);
- Knowledge of the finite element method or molecular dynamics will be an asset (0-5 pts);
- very good written and oral English language skills, confirmed by a certificate (0-7 points);
- high evaluation of previous scientific and research work (0-6 points);

The minimum number of points of the successful Candidate: 40.

Specific requirements:

An application should contain:

- a letter of application;

- "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);
- a copy of Ph.D. degree certificate or a confirmation of its completion;
- full CV (including information on maternal leaves, voluntary work, and periods of work in the industry);
- at least one current opinions on the Candidate given by precious supervisors, preferentially an independent researcher;
- list of scientific achievements (scientific papers, research and implementation projects, grants, conferences etc.).
- report on the Candidate's scientific interests and research aims taking into consideration reference to the subject of the project (an A4 page).

Languages:

Fluent in written and spoken English;

Research experience:

- Minimum 2 years of experience in atomic force microscopy or force spectroscopy

Remuneration:

The gross salary **4000 PLN/month** (roughly **850 Euro/month**) depending on the Candidate's experience.

Eligibility criteria:

- PhD in field of chemistry, physics or related discipline.
- proven publication record from the JRC list confirming the required experience.

Selection process:

Applications should be sent in electronic form to: sekretariat@ikifp.edu.pl with the subject title „Assistant - KNS 3/2022"

Deadline for applications: **22.02.2023 at 15:00 GMT+1**. The competition will be settled by **08.03.2023**. The candidates will be notified of the results.

The employment will proceed in accordance with the rules of the Labour Code for 12 months.

Additional information

The Institute has adapted to the needs of the disabled. The Institute does not provide accommodation. The recruitment process is conducted according to OTM-R policy.