



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



HR EXCELLENCE IN RESEARCH

KSN 11/2020

Kraków, 13.10.2020

Assistant in the group of Soft Matter Nanostructures

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field:
Chemistry > physical chemistry, colloid and interface chemistry, adsorption
- Researcher profile: R1/R2
- Deadline for applications: 13.11.2020, 3:00 pm GTM+1
- Place: Poland, Kraków
- Type of Contract: temporary, at least 24 months
- Job Status: Full-time
- Working hours/week: 40
- Start of employment: 01.01.2021
- Key Words: colloid and interface chemistry, adsorption, thin films, lipid films, nanostructures

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, which focus on:

- properties of polyelectrolyte multilayers with embedded nanoparticles or proteins;
- formation and properties of lipid bilayers and their interaction with nanoparticles or proteins;
- use of synchrotron methods (e.g., XRR, IR) for the analysis of thin films;

In particular the ASSISTANT will be responsible for:

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



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- Conducting research works in accordance with the Institute's profile, with particular emphasis on determining the properties of thin polyelectrolyte and lipid films and their interactions with nanoparticles or proteins using the existing research infrastructure;
- Planning and analysis of the results of experiments and preparation of publications
- Participation in submitting new research projects

Required education:

MSc Diploma in chemistry, physics or related

Skills/qualifications:

- Ability to conduct research in the field of soft matter nanostructures.
- Experience in the formation and characterization of liposomes and other lipid structures.
- Experience in the formation and characterizing thin polymer films (including LbL technique).
- Experience in techniques for the physicochemical characterization of nanostructures (e.g., QCM-D, XRR, DLS, spectrofluorimetry, ellipsometry, determination of surface energy).

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.) and fill in the form „Consent to the processing of personal data” confirming acquainting with its content. The form is available on the institute website [\[FORM\]](#).
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. Copies of 3 best publications connected to the topic of the call.
8. The Candidate's report on his/her scientific interests and research aims (an A4 page).



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Languages:

Fluent English in speech and writing

Research experience:

4-10 years in the research on the adsorption of soft matter on a solid using a number of experimental methods (e.g., QCM-D, XRR, DLS, spectrofluorimetry, ellipsometry, determination of surface energy)

Additional information:

Remuneration:

The gross salary will be at least **3300 PLN/month** (approx. **730 Euro**) depending on the Candidate's experience.

Eligibility criteria:

- MSc in chemistry, physics or related. PhD degree in the above disciplines will be additionally valued.
- Documented research experience confirmed by publications from the JRC list or patents.
- Experience in thin film analysis techniques, including X-ray reflectometry, along with the documented practice in the analysis of reflectometric curves
- Participation in a research internship / internships in centers other than those where the doctoral degree was obtained

Selection process:

Applications should be sent in electronic form to: sekretariat@ikifp.edu.pl with the subject title „ASSISTANT NMM KSN 11/2020”

Deadline for applications: **13.11.2020 at 3:00 pm GTM+1**. The competition will be settled by **14.11.2020**. The candidates will be notified of the results.

The employment will be proceeded with accordance to the rules of Labour Code for at least 24 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](#).

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