

Kraków, October 29.10.2019

**ASSISTANT PROFESSOR in Soft Matters Nanostructure group**

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field: Chemistry -> conductive and composite nanomaterials
- Deadline for applications: 09.12.2019
- Place: Poland, Kraków
- Type of contract: permanent position
- Employment contract: full-time
- Working hours/week: 40
- Start of employment: 1.02.2020

Jerzy Haber Institute of Catalysis and Surface Chemistry PAS invites applications for an Assistant Professor Position in the “**Soft Matters Nanostructure**” 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 Professor are encouraged to apply for the position.

The Candidate will participate in research conducted in the group **Soft Matters Nanostructure** which will concern the synthesis and characterization of metallic

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nanoparticles and core-shell structure for application in conductive materials and electrochemical sensors.

In particular, the Assistant Professor will be responsible for:

- Research in the field of synthesis and characterization of metallic nanoparticles.
- Fabrication and characterization of conductive tracks (by using "screen printing" and "inkjet printing" methods).
- Preparation composite films and their characterization by electrochemical methods (cyclic voltammetry, impedance spectroscopy).

• Required education:

PhD in chemistry, physics, or related discipline.

• Skills/qualifications:

- Ability to perform the synthesis of metallic nanoparticles, including those with a core-shell structure.
- Experience in using techniques for the physicochemical characterization of metallic nanoparticles.
- Skills to produce nanomaterials with conductive properties.
- Experience in preparation of the thin polymer and composite films and their characterization by electrochemical methods (cyclic voltammetry, impedance spectroscopy).
- Ability to independently conduct the research and prepare publications.

• Specific requirements

The Candidate should submit the following documents:

- An application.
- An agreement to process personal data according to GDPR regulation <http://www.ikpan.krakow.pl/RODO.946.0.html>,
- A copy of scientific degree certificate,
- Full CV (including information on maternal leaves, voluntary work, scientific stays in research entities, etc.),
- At least one opinion on the Candidate given by an independent researcher,
- List of scientific achievements (incl. list of publications and patents),
- The Candidate's own report on his/her scientific interests and research aims (one A4 page).

• Languages

Fluent written and spoken English.

- Research experience:

Experience in the synthesis and characterization of metallic and core-shell nanoparticles. In the fabrication of materials (inks, pastes, electrochemical sensors) based on nanoparticles and studying their properties. Experience in the preparation of tracks for printed electronics by using screen printing and inkjet printing methods.

- Additional information:

- Remuneration:

The brutto salary will be 4680 PLN/month or higher depending on the Candidate's experience.

- Eligibility criteria:

Practical experience in conducting research proven by scientific achievements (publications from JRC list and/or patents/patent applications). Scientific stay(s) in institutions other than where PhD studies were done – 18 months minimum.

- Selection process

Applications should be sent in electronic form to: [ncikifp@cyf-kr.edu.pl](mailto:ncikifp@cyf-kr.edu.pl), with the message subject “adjunct professor – Soft Matters Nanostructure”

Deadline for applications: 09.12.2019 at 3:00 pm CEST.

The competition will be settled by the end of December 2019.

The candidates will be notified of the results.

The employment will be proceeded with accordance to the rules of Labour Code permanent position.

- Additional information:

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