

Kraków, November 05, 2019

POST-DOC position in Soft Matter Nanostructure group

- Employer: Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland
- Research field: Chemistry -> soft matter nanostructures, adsorption, surfactants, polymers
- Deadline for applications: 09.12.2019
- Place: Poland, Kraków
- Type of contract: 18 month contract
- 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.

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The Candidate will participate in research conducted in the group **Soft Matters Nanostructure** within the framework of NCN OPUS project 2017/25/B/ST4/02450 *pH stimuli responsive surfactants and copolymers for nanovehicles formation*. The reserach will concern adsorption of surfactants and amphiphilic polyelectrolytes, their aggregation and formation of complex nanostructures as potential delivery vehicles for active components,

In particular, the POST-DOC will be responsible for:

- Conducting scientific research in the field of adsorption of surfactants and amphiphilic polyelectrolytes, (e.g., by the QCM-D method)
- Research on aggregation of amphiphilic polyelectrolytes and physicochemical characteristics of aggregates (e.g., size, zeta potential).
- Determination of stability of amphiphilic polymers by FTIR spectroscopy.

• Required education:

PhD in chemistry, physics, or related discipline.

• Skills/qualifications:

- Ability to conduct scientific research in the field of soft matter nanostructures formation.
- Experience in techniques for physicochemical characterization of bulk and surface nanostructures (DLS, QCM-D, FTIR-ATR, fluorescence).
- Experience in formation and characterizing thin polymer films (including LbL technique, spin coating)

• 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 conducting research in the field of soft matter nanostructures formation, experience in operating scientific equipment enabling physicochemical characteristics of bulk and surface nanostructures (DLS, QCM-D, FTIR-ATR, fluorescence), the ability to interpret the results independently

- Additional information:

- Remuneration:

The brutto salary will be 4200 PLN/month.

- Eligibility criteria:

Practical experience in conducting research proven by scientific achievements (publications from JRC list and/or patents/patent applications).

- Selection process

Applications should be sent in electronic form to: ncikifp@cyf-kr.edu.pl, with the message subject "POST-DOC – Soft Matter Nanostructures"

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.