



KSN-11/2023

Krakow, 15.10.2023

## **Call for Research Assistant (post-doc) 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
  - Chemistry > colloids
  - Chemistry > encapsulation
- Researcher profile: R2, R3
- Deadline for the applications: 16.11.2023, at 15:00 GTM+1
- Place: Poland, Krakow
- Type of Contract: 12 months
- Job Status: full time
- Working hours/week: 40
- Start of employment: 01.01.2024
- Keywords: nanoparticles, synthesis, encapsulation, neuroprotective drugs, MRI contrast agents

Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences, Krakow, Poland opens a position of a Research Assistant (post-doc) involved in the implementation of the OPUS 2020/39/B/NZ7/01913 project „New generation teranostatic nanocarriers for detection, diagnosis and neuroprotective treatment of ischemic stroke brain damage” in the Soft Matter Nanostructures 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.

A new postdoc contract is reserved for a person who has obtained their PhD within 7 years of joining the project. This period may be extended by a period of long-term (in excess of 90 days) documented sick leaves or rehabilitation leaves granted on account of 13 being unfit to work. In addition, the period may be extended by the number of months of childcare leave granted pursuant to the Labour Code and, in the case of women, by 18 months for every child born or adopted, whichever manner of accounting for career breaks is preferable.



The Candidate, reporting to the project leader, will work on the development of the methods of co-encapsulation of selected neuroprotective drugs and MRI contrast agents in the nanocarriers with the size below 300 nm.

The Research Assistant will be responsible for:

- Synthesis of biocompatible polymeric nanoparticles (e.g. PCL, PLA).
- Encapsulation of polymeric nanoparticles and emulsion drops by the sequential adsorption technique.
- Characterization of synthesized nanoparticle by the methods: DLS, LDA, NTA, UV-vis, fluorescence.
- Experimental data processing, preparation of publications.

**Required education level:**

PhD in one of the following disciplines: chemistry, chemical engineering, materials engineering or similar.

**Skills/Qualifications supported by JRC publications:**

1. Experience in synthesis of nanoparticles and nanocapsules; 0-20
2. Working knowledge of nanomaterials characterization methods; 0-20

The minimal number of points required for admission - 25

**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 PhD degree certificate,
- full CV (including information on maternal leaves, voluntary work and periods of work in the industry),
- list of scientific achievements (scientific papers, research and implementation projects, grants, conferences etc.)

**Languages:**

Fluent in written and spoken English, communication in Polish will be an asset.

**Research experience:**

- At least 4-10 years of experience in physical chemistry.
- Working knowledge of nanomaterials characterization methods.

**Remuneration:**

- The gross salary 7000-8300 PLN/month (roughly 1500-1800 Euro/month) depending on the Candidate's experience.
- During the employment period, the candidate shall not receive any other remuneration from the funds allocated as direct costs of research projects financed under NCN calls.

**Eligibility criteria:**

- Research experience documented by scientific publications in journals enlisted in JCR or patents and conference presentations.
- PhD in one of the following disciplines: chemistry, chemical engineering, materials engineering or similar obtained not earlier than 7 years before the engagement in the project (this period might be longer due to family reasons (according to NCN rules)).\*

**Selection process:**

Applications should be sent in the electronic form to: sekretariat@ikifp.edu.pl with the subject title „NMM – post-doc – KSN 11/2023”

Deadline for applications: 16.11.2023 at 15:00 GMT+1.

The group of selected candidates can be asked to participate in an individual meeting using teams platform.

The competition will be settled by 07.12.2023.

The candidates will be notified of the results. The employment will be proceeded in accordance to 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](#).