

Scholarship for a PhD student in the NCN Preludium Bis project

We offer a research scholarship to PhD student for a time period of 48 months within **NCN-funded project, Preludium Bis UMO-2022/47/O/ST5/01858**. The planned research will be carried out in the **Physicochemistry of Colloidal Systems** group of the Jerzy Haber Institute of Catalysis and Surface Chemistry Polish Academy of Sciences.

Requirements

- university degree holder in field of chemistry, materials science, engineering and/or chemical technology or related discipline
- practical laboratory skills
- highly motivated and willing to acquire new knowledge/skills related to the planned research
- fluent in spoken and written English
- participation in the interview verifying the candidate's competencies
- undertaking studies at the Krakow School of Interdisciplinary PhD Studies (KISD) (<https://kisd.ifj.edu.pl/news/>) Attention! Persons holding a doctoral degree or studying at any doctoral school may not participate in this competition.

Task description:

Research work within the framework of the Preludium Bis 4 project entitled “**Impact of metal and metal oxide nanoparticle functionalization by low-molar mass polyphenols on their activity in protein fibrillation processes**”. The duties of the PhD student will include the implementation of planned research activities, in particular: synthesis of metal and metal oxide nanoparticles and the study of the impact of prepared nanostructures, as well as selected polyphenols, on the fibrillation processes of lysozyme, amyloid β and α -synuclein. The following experimental methods will be applied during the project execution: UVvis, Raman and IR spectroscopies, inductively coupled plasma optical emission spectroscopy (ICP-OES), circular dichroism spectroscopy (CD), dynamic light scattering (DLS), electrophoretic light scattering (ELS), electron microscopy (TEM and SEM), atomic force microscopy (AFM). A PhD student will have to complete a six-month scientific internship at a foreign research center. Additionally, a scholarship holder will be responsible for the analysis of the obtained research results and their dissemination in the form of scientific articles and conference presentations.

Employment conditions:

- A person selected in the competition procedure who successfully passed the recruitment process for KISD (according to the rules set out in the School's recruitment regulations, details at the link: <https://kisd.ifj.edu.pl/recruitment/recruitment-for-a-project/>, will receive a NCN scholarship: 5 000 PLN per month until the month in which the mid-term evaluation of the doctoral student at the doctoral school was carried out, and 6 000 PLN after a month, in which the mid-term evaluation of the doctoral student at the doctoral school was carried out (according to the „Regulamin przyznawania środków na realizację zadań finansowanych przez Narodowe Centrum Nauki w zakresie projektów badawczych” (https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2022/uchwala27_2022-zal1.pdf)
- the start of the project and education at KISD will begin on **October 1, 2023**
- DSc. Magdalena Oćwieja will be a PhD supervisor

Required documents:

- curriculum vitae (CV) with a list of scientific achievements (scientific publications, awards, participation in conferences, ect.)
- a motivation letter
- diploma of completion of MA (or related) studies or a certificate of their completion (with Master degree or equivalent entitling to apply for the award of a degree of doctor in the country of the education system of which the higher education institution which issued it operates degree)
- Reference of an MA thesis supervisor or head of a research group in which the candidate works (other motivation letters confirming the practical skills of candidate are welcome)
- certificate confirming the English language skills
- "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.) (https://ikifp.edu.pl/wp-content/uploads/2021/04/Zgoda_rekrutacja_ENG.pdf) and "Information obligations –recruitment of a perspective employee/collaborators" confirming acquainting with its content (https://ikifp.edu.pl/wp-content/uploads/2021/04/OI_RekrutacjaPracWspolpraca_ENG.pdf) (both documents filled and signed by the Candidate); (more information available on the website: <https://ikifp.edu.pl/en/gdpr/>)

Recruitment process – important dates:

Applications should be sent in electronic form to: magdalena.ocwieja@ikifp.edu.pl with the subject title „PRELUDIUM BIS-doktorant”.

Recruitment application form to KISD (with all required attachments) should be delivered to the KISD secretary office, according to the details described in the Recruitment regulations (<https://kisd.ifj.edu.pl/recruitment/recruitment-regulations-2/>) and in the recruitment announcement for the project (https://kisd.ifj.edu.pl/recruitment-for-project_2023_p5/)

The deadline for submitting documents is **June 23, 2023**.

The date of interview verifying the competencies of candidates: **July, 11-13, 2023**.

The deadline for recruitment to the KISD in accordance with the data posted on the website https://kisd.ifj.edu.pl/recruitment-for-project_2023_p5/.

The competition will be settled by **July 21, 2023**. Candidates will be notified of the result by e-mail.

Additional information:

The competition organized in accordance with „Regulamin przyznawania środków na realizację zadań finansowanych przez Narodowe Centrum Nauki w zakresie projektów badawczych” (https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2022/uchwala27_2022-zal1.pdf).

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