

## 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-2023/50/O/ST5/00249. The planned research will be carried out in the Nano and Microscale 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 (*If it is not possible to deliver a diploma of completion of MA (or related) studies within the deadline for submitting documents due to waiting for the defense of the master's thesis, it is allowed to provide a certificate of graduation and waiting for the defense of the master's thesis, along with an indication of the date of defense.*)
- experience in molecular dynamics simulations
- 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

Scientific work is planned as part of the NCN Preludium Bis 5 project "Fine-tuning of polyelectrolyte complexes properties via ternary composition". The doctoral student's tasks will include the work planned in the project, in particular, modeling ternary polyelectrolyte mixtures and complexes using computational methods, as well as their synthesis and experimental characterization. During research work, among others, the following methods will be used: molecular dynamics (MD), electron spectroscopy in the UV-vis range, dynamic (DLS) and electrophoretic light scattering (ELS) techniques and quartz microbalance with energy dissipation (QCM-D). Additionally, the doctoral student's tasks will include completing a four-month research internship at a foreign university, as well as analyzing the obtained research results and disseminating them 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-for-project\\_2024\\_p4/](https://kisd.ifj.edu.pl/recruitment-for-project_2024_p4/)), will receive a NCN scholarship: 5 000 PLN (gross) 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 (gross) after a month, in which the mid-term evaluation of the doctoral student at the doctoral school was carried out.
- the start of the project and education at KISD will begin on October 1, 2024
- DSc. Piotr Batys will be a PhD supervisor

### REQUIRED DOCUMENTS:

- curriculum vitae (CV) with a list of scientific achievements (scientific publications, awards, participation in conferences)
- 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](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](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

Applications should be sent in electronic form to: [piotr.batys@ikifp.edu.pl](mailto:piotr.batys@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\\_2024\\_p4/](https://kisd.ifj.edu.pl/recruitment-for-project_2024_p4/))

**The deadline for submitting documents is June 28, 2024.**

The date of interview verifying the competencies of candidates: July 15-18, 2024.

The deadline for recruitment to the KISD in accordance with the data posted on the website [https://kisd.ifj.edu.pl/recruitment-for-project\\_2024\\_p4/](https://kisd.ifj.edu.pl/recruitment-for-project_2024_p4/) .

The competition will be settled by July 21, 2024. Candidates will be notified of the result by e-mail.

#### ADDITIONAL INFORMATION

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