CeNT-24-2026

Director of Centre of New Technologies of the University of Warsaw, with the Project Leader, announce opening of the competition for the position of Student in the Chemical and Biological Systems Simulation Laboratory – Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	Student
Laboratory:	Chemical and Biological Systems Simulation Laboratory
Scientific discipline:	Chemistry
Keywords:	Computational modelling, quantum chemistry, molecular dynamics
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month:	1500-2000 PLN / month
Position starts on:	01.07.2026 or soon after that date
Maximum period of contract/stipend agreement:	12 months with the possibility of extension up to 18 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. dr hab. Bartosz Trzaskowski
Project title:	Polyoxometalates containing Mn / Hf / V / W / Mo transition metals; from parametrization of computational protocols toward the design of new artificial enzymes
Competition type:	NCN OPUS 28
Financing institution:	NCN
Project description:	The main goal of this research project is to develop state-of-the-art computational tools able to rationally design and computationally study new polyoxometalates in the long range quest to develop new artificial enzymes. Polyoxometalates are frequently found as building blocks in metal organic frameworks (MOFs), that are able to mimic reactivity of biological enzymes and perform important catalytic reactions. The central part of this project consists of the design of new parametrizations for a series of transition metal-oxo clusters that will allow to perform high-throughput molecular docking and long-timescale molecular dynamics simulations of cluster binding to proteins.
Key responsibilities include:	- development of new parametrizations for a series of Mn / Hf / V polyoxometalates - design and modelling of new MOFs and POMs - analysis of the obtained data - active participation in lab meetings, scientific seminars and international conferences - participation in the data preparation and writing of manuscripts

Profile of candidates/requirements:	The competition is open for persons who meet the conditions specified in the regulations for awarding NCN Scholarships for NCN-funded research projects (OPUS 28 grant). The candidate should be enrolled as a student of first cycle studies, second cycle studies or uniform Master's studies conducted in a higher education institution on the territory of Poland, in chemistry or related discipline. - good knowledge of mechanism of organic reactions - good command of English - strong analytical and problem-solving skills as well as excellent communication skills
Required documents:	1. Current curriculum vitae. 2. Signed information on the personal data processing. Before entering the competition, candidates are obliged to familiarise themselves with Internal Reporting Procedure.
We offer:	- an opportunity to participate in a multidisciplinary project in one of the best scientific institutions in Poland - stimulating, young and friendly work environment - access to state-of-art equipment - opportunities for interdisciplinary and international collaborations
Please submit the following documents to:	b.trzaskowski@cent.uw.edu.pl with the title MSc application
Application deadline:	27.05.2026
Date of announcing the results:	not later than 03.06.2026
Method of notification about the results:	E-mail, CeNT website