



CeNT-40-2025

Director of Centre of New Technologies of the University of Warsaw, with the Project Leader, announce opening of the competition for the position of PhD Student in Biomolecular Machines Laboratory– Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	PhD Student
Laboratory:	Biomolecular Machines Laboratory
Scientific discipline:	Life Sciences (biochemistry/biophysics/biology)
Keywords:	organic chemistry, bacterial uptake systems, iron transport, oligonucleotides, peptide nucleic acids
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month:	2500 PLN gross gross per month
Position starts on:	1st of October 2025
Maximum period of contract/stipend agreement:	4 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. Joanna Trylska
Project title:	Making use of siderophore transport systems to deliver peptide nucleic acids to bacterial cells
NCN programme:	OPUS 19
Project description:	<p>The project objective is to use bacterial iron transport systems to deliver peptide nucleic acid (PNA) oligomers to bacterial cells, including the design of siderophore-PNA conjugates, their synthesis, and atomistic-level characterization of transport through the bacterial outer membrane.</p> <p>The lab web page is at http://bionano.cent.uw.edu.pl Enquiries about the project: jtrylska@uw.edu.pl</p>
Key responsibilities include:	<ul style="list-style-type: none"> - synthesis of peptides, peptide nucleic acids, and siderophore mimics, - conjugating siderophores, peptides and other molecules with peptide nucleic acids and antibiotics, - preparing reports and manuscript drafts, presenting results at internal meetings and national or international conferences,
Profile of candidates/requirements:	<p>The competition is open for persons who meet the conditions specified in the regulations on the allocation of resources for the implementation of tasks financed by the National Science Centre for OPUS 19 grant.</p> <p>MSc degree in chemistry, physics, biology or related discipline. The MSc degree should be obtained before the date of employment in the project.</p>



	<p>Confirmed status of a PhD student at the time of starting the employment. The stipend can be paid only after the person has acquired the PhD student status.</p> <p><i>We are looking for motivated and hard-working PhD students with the ability to communicate in English in speech and writing (at C1 certificate level), team work skills, and independent thinking. Interests in organic chemistry, specifically peptide chemistry and solid phase peptide synthesis, as well as in microbiology will be beneficial.</i></p>
Required documents:	<ol style="list-style-type: none">1. short cover letter2. current research curriculum vitae (PDF is the preferred format) including the name of a scientist who is familiar with the candidate and can issue a recommendation letter, and, if relevant, information on scientific presentations, attended conferences, publications, scholarships, awards or other information demonstrating the candidate's excellence3. a copy of the MSc certificate4. a copy of C1 certificate as a proof of command in English language5. signed information on the personal data processing. <p>Before entering the competition, candidates are obliged to familiarise themselves with Internal Reporting Procedure.</p>
We offer:	<ul style="list-style-type: none">- work in an interdisciplinary group whose research bridges the fields of physics, chemistry, and biological sciences,- opportunities for scientific development of the candidate,- opportunity to publish research results in renowned scientific journals,- friendly work environment and opportunities for scientific development and international collaborations.
Please submit the following documents to:	joanna@cent.uw.edu.pl with 'PhD student' as the e-mail title
Application deadline:	September 14th, 2025
Date of announcing the results:	19th of September 2025
Method of notification about the results:	e-mail, CeNT UW website: https://cent.uw.edu.pl/job-offers/