



CeNT-17-2026

**Director of Centre of New Technologies of the University of Warsaw, with the Project Leader, announce opening of the competition for the position of 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 - (bio)chemistry/(bio)physics/biology
Keywords:	peptides organic chemistry, oligonucleotides, peptide nucleic acids
Job type (employment contract/stipend):	Stipend
Number of job offers:	1
Remuneration/stipend amount/month:	up to 5000 PLN gross/gross per month in the first 2 years and up to 6500 PLN gross/gross in the 3rd year
Position starts on:	1st of October 2026 or earlier if the candidate already holds an MSc.
Maximum period of contract/stipend agreement:	36 months with a possibility of extension up to 39 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. Joanna Trylska
Project title:	<i>Structural engineering of cell-penetrating peptides into biostable antibacterials to combat drug-resistant pathogens</i>
NCN programme:	OPUS 29
Project description:	<p>The project objective is to develop peptide-based membrane-penetrating antimicrobials with chemically stabilized structures that will combat drug-resistant bacteria while maintaining favourable safety profiles. The project summary is at <a href="http://bionano.cent.uw.edu.pl/projects/opus4/">http://bionano.cent.uw.edu.pl/projects/opus4/</a></p> <p>The lab web page is at <a href="http://bionano.cent.uw.edu.pl">http://bionano.cent.uw.edu.pl</a></p>
Key responsibilities include:	<ul style="list-style-type: none"><li>- synthesis of peptides and peptidomimetics with noncanonical amino acids and chemical stabilization of peptides</li><li>- circular dichroism and fluorescence spectroscopy experiments</li><li>- microbiology experiments</li><li>- preparing reports, manuscript drafts, presenting results at internal meetings and national or international conferences</li></ul>
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 29 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 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"><li>1. Short cover letter (can be as an e-mail).</li><li>2. Curriculum vitae (PDF is the preferred format) with, if relevant, information on scientific presentations, attended conferences, publications, scholarships, awards or other information demonstrating the candidate's profile.</li><li>3. A copy of the MSc certificate (or, if the MSc certificate has not been obtained yet, information about the planned month of the MSc defense).</li><li>4. A document confirming the status of PhD Student (to be provided before starting work in the project).</li><li>5. Signed <a href="#">information on the personal data processing</a>.</li></ol> <p>Before entering the competition, candidates are obliged to familiarize themselves with <a href="#">Internal Reporting Procedure</a>.</p>
We offer:	<ul style="list-style-type: none"><li>- work in an interdisciplinary group whose research bridges the fields of physics, chemistry, and biological sciences,</li><li>- opportunities for scientific development of the candidate,</li><li>- opportunity to publish research results in renowned scientific journals,</li><li>- friendly work environment and opportunities for scientific development and international collaborations.</li></ul>
Please submit the following documents to:	joanna@cent.uw.edu.pl
Application deadline:	April 26, 2026
Date of announcing the results:	not later than May 11, 2026
Method of notification about the results:	e-mail, CeNT website