



CeNT-17-2021

**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 the 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
Part-time/full-time:	Full-time
Number of job offers:	1
Remuneration/stipend amount/month:	5000 PLN gross gross per month
Position starts on:	Not earlier than June 1 <sup>st</sup> 2021
Maximum period of contract/stipend agreement:	up to 48 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. Joanna Trylska
Project title:	<i>Making use of siderophore transport systems to deliver peptide nucleic acids to bacterial cells</i>
Competition type:	OPUS 19
Financing institution:	National Science Centre
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. The project is interdisciplinary and both the experimental and computational tasks are performed in one lab.</p> <p>The lab web page is at <a href="http://bionano.cent.uw.edu.pl">http://bionano.cent.uw.edu.pl</a></p> <p>Enquiries about the project: <a href="mailto:jtrylska@uw.edu.pl">jtrylska@uw.edu.pl</a></p>
Key responsibilities include:	<ul style="list-style-type: none"><li>- synthesis of peptides, peptide nucleic acids, and siderophore mimics,</li><li>- conjugating siderophores, peptides and other molecules with peptide nucleic acids and antibiotics,</li><li>- preparing reports and manuscript drafts, presenting results at internal meetings and national or international conferences,</li></ul>



	<p>- performing simulations is also possible if the person is or would like to apply to Interdisciplinary Doctoral School.</p>
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, 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</li><li>2. 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 excellence</li><li>3. a copy of the MSc certificate (or, if the MSc certificate has not been obtained yet, a certificate/document about the expected date of the MSc defense);</li><li>4. Signed <a href="https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/11/Information-clause_personal-data-processing.pdf">information on the personal data processing</a>. The form is available at <a href="https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/11/Information-clause_personal-data-processing.pdf">https://cent.uw.edu.pl/en/wp-content/uploads/sites/5/2020/11/Information-clause_personal-data-processing.pdf</a></li></ol>
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>- full-time stipend for up to 48 months,</li><li>- friendly work environment and opportunities for scientific development and international collaborations.</li></ul>
Please submit the following documents to:	<a href="mailto:joanna@cent.uw.edu.pl">joanna@cent.uw.edu.pl</a> with 'PhD student' as the e-mail title
Application deadline:	April 29 <sup>th</sup> , 2021
Date of announcing the results:	No sooner than May 7 <sup>th</sup> , 2021
Method of notification about the results:	e-mail