CeNT-39-2025

Director of Centre of New Technologies of the University of Warsaw announces the opening of the competition for the position of Student in the Laboratory of Chemical Biology– Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	Student
Laboratory:	Laboratory of Chemical Biology
Scientific discipline:	Chemical sciences (bioorganic chemistry, chemical biology)
Keywords:	Nucleotide, inhibitors, mRNA 5' cap, therapeutic mRNA
Job type (employment contract/stipend):	Stipend
Number of job offers:	2
Remuneration/stipend amount/month:	2000 PLN (gross gross)
Position starts on:	01.10.2025
Period of contract/stipend agreement:	6 months with possibility of extension to 24 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. dr hab. Jacek Jemielity
Project title:	*Feel the chemistry if you're close enough - proximity-induced SuFEx ligation for mRNA biology and medicine*
NCN programme:	OPUS 25
Project description:	The aim of this project is to implement the Sulfur-Fluorine Exchange (SuFEx) reaction into the field of nucleosides, (oligo)nucleotides and mRNA. SuFEx in a novel click-type reaction that takes advantage of exceptional chemical properties of the S(VI)-F bond present in sulfonyl fluorides (R-SO2F), fluorosulfates (RO-SO2F) and sulfamoyl fluorides (RNH-SO2F). Apart from its utility in general organic chemistry SuFEx approach towards biomolecules creates unique opportunity by gaining them new functions and properties through introduction of “sufexable” units into their structure.
Key responsibilities include:	Synthesis of modified nucleotides and oligonucleotides with SuFEx group and their spectroscopic characterization. Stability studies. Synthesis of mRNA by IVT method. Biophysical study on (oligo)nucleotides - protein interactions.
Profile of candidates/requirements:	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 25 grant.[1]

[1] Regulations on the mode of the granting financial resources for the completion of tasks funded by the National Science Centre as regards research projects, stipulated by resolution of the NCN Council No. 23/2023 of 16 February 2023 r.

	1. Enrolled as a student of first cycle studies or second cycle studies conducted in a higher education institution on the territory of Poland in biology, chemistry, physics or related discipline. 2. Great communication skills and a passion for life sciences 3. Experience in organic chemistry techniques (bioorganic compounds synthesis, purification and identification) or in molecular biology techniques (Synthesis of mRNA by IVT method) is a big advantage
Required documents:	1. Cover letter 2. Current curriculum vitae with list of publications, conference presentations and other achievements 3. Copy of document confirming the student status 4. Transcript of studies record 5. Signed information on the personal data processing Before entering the competition, candidates are obliged to familiarise themselves with Internal Reporting Procedure.
We offer:	Stimulating and friendly work environment, opportunity to work in an innovative project
Please submit the following documents to:	j.jemielity@cent.uw.edu.pl
Application deadline:	19.09.2025
Date of announcing the results:	26.09.2025
Method of notification about the results:	e-mail