



JOB OFFER

Position in the project:	PhD student
Laboratory:	Laboratory of Bioorganic Chemistry
Scientific discipline:	Bioorganic chemistry
Keywords:	nucleotide synthesis, mRNA 5' cap, therapeutic mRNA
Job type (employment contract/stipend):	Stipend/scholarship
Part-time/full-time:	Full-time
Number of job offers:	1
Remuneration/stipend amount/month:	5000 PLN (gross gross)/ 3 500 – 4 500 PLN net
Position starts on:	01.10.2020
Period of contract/stipend agreement:	24 months, with a possibility of extension up to 36 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	dr hab. Jacek Jemielity, prof. ucz.
Project title:	mRNA 5' end methylation status: towards deeper understanding of biological role and identification of synthetic mimics
Competition type:	OPUS 17
Financing institution:	National Science Centre
Project description:	The aim of the project is to understand how the methylation status at the 5' end of mRNA cap structure and the few neighboring nucleotides influences biochemical properties of mRNA such as translation, turnover, and immunogenicity. These properties are of crucial importance for applicability of mRNA in gene therapies, therefore this knowledge can be used for tailoring structure of mRNA 5' end to various therapeutic applications. The studies will cover the modifications within ribose of the first (cap 1) and the second transcribed nucleotide (cap 2) as well as methylation of the bases including 6-methyl adenosine (m6A) and 5-methylcytosine.
Key responsibilities include:	Synthesis and purification of mRNA cap analogs. Spectroscopic characterization and investigation of their chemical stability.
Profile of candidates/requirements:	We seek motivated candidates with: - MSc degree in (bioorganic) chemistry, biophysics, molecular biology or related field. The MSc degree must be obtained not later than the date of employment in the project; - fluent English; - strong interest in chemistry and biology of nucleotides and



	oligonucleotides; - experience in synthesis and characterization of chemical compounds will also be appreciated.
Additional requirements	After successful recruitment, the candidate will have to obtain the status of PhD student at the University of Warsaw, according to standing procedures.
Required documents:	1. Cover letter 2. Current curriculum vitae including a description of prior research experience; 3. A list of publications and conference presentations; 4. At least two reference contacts (with phone numbers and e-mails) 5. A transcript of record from undergraduate studies or from the first 3 years in case of uniform studies
We offer:	- Stimulating and friendly work environment; - Possibility to continue employment in the laboratory until obtaining the PhD degree
Please submit the following documents to:	j.jemielity@cent.uw.edu.pl
Application deadline:	04.05.2020
Date of announcing the results:	18.05.2020
Method of notification about the results:	e-mail

To allow us to process your data, please include in your application the signed information on the personal data processing, available at: <http://bsp.adm.uw.edu.pl/bsp/druki-i-formularze/>