



UNIVERSITY
OF WARSAW

CeNT Centre Of New
Technologies



CeNT-34-2026

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 the Laboratory of Functional and Structural Genomics – Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	PhD Student
Laboratory:	Laboratory of Functional and Structural Genomics
Scientific discipline:	Biology
Keywords:	3D-genome, TET, DNA methylation, epigenetics, epigenomics, NGS, ONT
Job type (employment contract/stipend):	stipend
Number of job offers:	1
Remuneration/stipend amount/month:	For students admitted to the doctoral school outside the admission limit: PLN 5093,08 per month (gross gross) for the first 24 months and, following a positive mid-term evaluation, PLN 6446,04 per month (gross gross) for the remaining 12 months. For students admitted to the University of Warsaw doctoral school within the admission limit: a scholarship of up to PLN 5000 per month (gross gross), in addition to the doctoral scholarship paid by the doctoral school as indicated above.
Position starts on:	1.10.2026 or as soon as possible afterwards
Maximum period of contract/stipend agreement:	36 months with possibility of extension
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Dr inż. Joanna Borkowska
Project title:	The role of TET1 protein in shaping the three-dimensional organization of chromatin and maintaining genome stability.
NCN programme:	Sonata 21
Project description:	The spatial organisation of chromatin within the cell nucleus is crucial for the regulation of gene expression, DNA replication, and genome stability. One of the major epigenetic mechanisms influencing 3D genome architecture is DNA methylation, which is regulated, among others, by TET enzymes. Altered TET1 activity has been observed in many cancers, but its



	consequences remain poorly understood. Our preliminary results indicate that TET1 colocalises with CTCF, is present within chromatin loops, and is enriched at sites of DNA double-strand breaks. The aim of the project is to investigate the role of TET1 in the spatial organisation of chromatin and genomic instability in healthy and cancer cells. The project will use TET1 knockout, catalytically inactive, and overexpression models.
Key responsibilities include:	- Cell culture. - Generation of functional mutants using conventional transfection methods and/or CRISPR–Cas9 genome editing. - Preparation of sequencing libraries, including HiChIP, ChIP-seq, and CUT&RUN. - Analysis and interpretation of results. - Preparation of reports and scientific figures. - Preparation of scientific manuscripts.
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 Sonata 21 grant. MSc degree in biology, biotechnology or related discipline. The MSc degree should be obtained before the date of employment in the project. - Confirmed status of a PhD student (on the date of starting work in the project at the latest). - Knowledge of molecular biology techniques, including PCR, gel electrophoresis, immunofluorescence, and related methods. - Experience in Western blotting and/or genome editing will be considered an additional advantage. - Good practical laboratory skills and attention to detail. - Ability to work independently as well as collaboratively within a research team. - Good organisational and time-management skills. - Motivation to learn new experimental and computational methods. - Ability to analyse and critically interpret scientific data. - Good scientific communication skills. - Excellent command of English, both written and spoken. - Interest in chromatin biology, epigenetics, 3D genomics, and genome regulation.
Required documents:	1. Cover letter, 2. Current curriculum vitae, 3. Copy of MSc certificate (or, if the MSc certificate has not been obtained yet, a certificate/document about the date of MSc defense), 4. Document confirming the status of PhD Student (to be provided before starting work in the project), 5. Signed information on the personal data processing,



	6. Contact detail to at least one person who can provide letters of recommendation. Before entering the competition, candidates are obliged to familiarise themselves with Internal Reporting Procedure.
We offer:	- The opportunity to work in an interdisciplinary research team combining molecular biology, genomics, bioinformatics, and data analysis. - Participation in an innovative project focused on epigenetics and the spatial organisation of the genome. - The opportunity to work with state-of-the-art genome-mapping technologies. - Comprehensive scientific supervision and regular methodological support throughout the PhD project. - Training in advanced experimental and computational methods. - Opportunities to participate in conferences, training courses, workshops, international research visits, and scientific internships. - Collaboration with national and international research partners. - A supportive environment that encourages scientific discussion, skill development, and increasing research independence. - Opportunities to contribute to high-quality publications and build a strong academic profile.
Please submit the following documents to:	j.borkowska@cent.uw.edu.pl
Application deadline:	6.09.2026
Date of announcing the results:	Not earlier than 14.09.2026
Method of notification about the results:	e-mail, CeNT UW web page