Cryo-electron Microscopy Specialist

The Centre of New Technologies of the University of Warsaw (CeNT UW) is establishing a new, state-of-the-art cryo-EM Core Facility that will accommodate a 200kV Glacios cryo-TEM microscope equipped with a Falcon 3EC direct detection camera and a phase plate, for preliminary sample screening and a mid-to-high range resolution structural studies of biological molecules. In the near future, we also plan to implement the cryo-focused ion beam milling (cryo-FIB) technology to enable in situ structural biology in intact eukaryotic cells. Our newly formed core facility will become a part of a broader network encompassing the high-end 300kV cryo-electron microscope to be localized at the National Cryo-Electron Microscopy Centre in Cracow, offering unparalleled research capabilities.

We are seeking a highly motivated individual to join the CeNT’s Infrastructure Department as an accomplished electron microscopy specialist, to support the mission of setting up the pioneering cryo-electron microscopy core facility in the country. The successful candidate will be responsible for operating and maintaining the relevant instrumentation on a daily basis, training and assisting users, participating in the development of cryo-EM technology, including contribution to scientific projects, and performing other duties as assigned.

**Scientific discipline:** Materials Science, Physics, Structural Biology/Chemistry

**Job type (employment contract/stipend):** employment contract

**Number of job offers:** 1

**Remuneration/stipend amount/month:** salary adequate to the level of experience

**Position starts on:** as soon as possible

**Institution:** Centre of New Technologies, University of Warsaw

**KEY ROLES/RESPONSIBILITIES**

- Daily operation and maintenance of the 200kV Glacios cryo-TEM microscope, ensuring optimal performance of the instrument;
- Operation and maintenance of cryo EM-related ancillary equipment, e.g. Vitrobot plunge freezer for sample preparation;
- Sample screening and assessment as a prerequisite for efficient cryo-EM data acquisition with Single Particle Analysis (SPA) and/or cryo-tomography;
- Training, assisting and overseeing users in sample preparation, and data analysis;
- Managing the cryo-EM Core Facility, including (but not limited to) organizing the daily lab work, ordering supplies, keeping records, writing reports, and performing other activities as assigned;
- Developing and implementing efficient strategies for sample preparation and data collection;
- Participating in the development and implementation of new methods/techniques in the cryo-EM field.
**REQUIREMENTS**

- PhD (essential) in Materials Science, Physics, Structural Biology/Chemistry or a related technical field;
- A minimum of 2 years of hands-on experience and expertise in transmission and/or scanning electron microscopy including instrument operation, calibration, sample preparation, image processing and analysis;
- Previous work experience in a multi-user microscopy facility will be a strong asset;
- Strong motivation and willingness to undergo training and expand the existing skills to become a leading cryo-TEM expert capable of working with biological material;
- Excellent problem-solving skills and strong attention to detail;
- Skills in working and communicating with scientists at all levels;
- Ability in working on multiple challenging tasks in a rapidly-paced environment;
- Excellent English language skills both oral and written.

**REQUIRED DOCUMENTS:**

- CV,
- Cover letter,
- Reference contacts.

**WE OFFER:**

- Attractive salary adequate to presented skills and experience;
- Stable employment.

*Please submit the following documents to:* infrastruktura@cent.uw.edu.pl.


We will contact selected candidates only.

For more details about the position please contact us via infrastruktura@cent.uw.edu.pl.

*Please include in your offer:*

“I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw.

I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.”
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1. The Controller of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa;
2. The Controller has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: iod@adm.uw.edu.pl;
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
4. The provided data will be processed pursuant to Article 221 § 1 of the Act of 26 June 1974 Labor Code (uniformed text: Journal of Laws of 2018, item 917) and your consent for processing of personal data;
5. Provision of data in the scope stipulated in the Labor Code is mandatory, and the remaining data are processed according to your consent for processing of personal data;
6. The data will not be shared with any external entities;
7. The data will be stored until you withdraw your consent for processing of personal data;
8. You have the right to access your personal data, to rectify, erase them, restrict their processing, object to processing, and to withdraw the consent at any time;
9. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data.