**JOB OFFER**

**Position in the project:** PhD student  

**Scientific discipline:** Molecular Biology/Biochemistry/Cancer Biology  

**Laboratory:** Laboratory of Molecular and Cellular Signaling  

**Keywords:** Hedgehog, transcription factors, primary cilia, mass spectrometry, BioID, protein transport, endocytosis  

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

**Number of job offers:** 1  

**Remuneration/stipend amount/month:** 4000 PLN/month gross  

**Position starts on:** 1/08/2023  

**Maximum period of contract/stipend agreement:** 1 year, with the possibility of extension up to 4 years  

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

**Project leader:** Paweł Niewiadomski  

**Project title:** Mechanisms of protein transport to primary cilia  

**Project description:** Primary cilia function as cellular antennae that transmit signals from the environment to the cytosol and nucleus. Despite the essential function of cilia in development and their involvement in disease, mechanisms of transport of proteins into the ciliary compartment is poorly understood. Specifically, little is known about how soluble proteins reach the primary cilium. The successful candidate will use a combination of state-of-the-art proteomic, molecular biology, and imaging techniques to characterize the transport of soluble proteins to cilia and to outline the main pathways involved, including vesicular transport, small GTPases, and the cytoskeleton. Our work has the potential to improve the understanding of intracellular transport pathways and to contribute to the treatment of cilium-associated diseases, including many birth defects and cancer. For more information, please visit our website: [http://lmcs.cent.uw.edu.pl/](http://lmcs.cent.uw.edu.pl/)  

**Key responsibilities include:**  
- Designing, planning, and executing experiments  
- Analysing data  
- Presenting results at local and international conferences  
- Drafting manuscripts for publication  
- Attending classes as required by the doctoral school
### Profile of candidates/requirements:

**You need to be:**

- Willing to take initiative in technical troubleshooting and experimental design
- Passionate about hard work in a high-pressure environment

**Other requirements:**

- Ability to communicate fluently in English
- Master’s degree or equivalent in biology, biotechnology, pharmacy or related fields
- Experience in molecular cloning, immunofluorescence imaging, cell culture, and loss-of-function methods in mammalian cells (siRNA, shRNA, CRISPR-Cas9)
- Ideally, the candidate should have a track record of co-authorship of conference presentations, journal papers and/or preprints
- The candidate must be enrolled in a PhD program at the start of starting work in the project

### Required documents:

1. Cover letter describing personal motivation to apply for this position
2. CV with contact information for at least 2 references, one of whom should preferably be your MSc advisor
3. Document confirming the PhD Student status – to be provided before starting work in the project
4. Signed information on personal data processing

### We offer:

- An environment that pushes you to excel, fostering your **creativity, autonomy, and personal growth**
- Strong mentoring that will help you develop into a mature and well-rounded scientist
- Access to state-of-the-art equipment and core facilities
- A competitive stipend

### Please submit the following documents to:

Please send the following information to lmcs.recruitment@gmail.com (put “PhD student” in the subject line).

### Application deadline:

30/07/2023

### Date of announcing the results:

10/08/2023

### Method of notification about the results:

e-mail, CeNT website: [https://cent.uw.edu.pl/en/career/](https://cent.uw.edu.pl/en/career/)