UNIWERSYTET WARSZAWSKI

Wydział Biologii
Instytut Biochemii/Zakład Biologii Molekularnej

Job Offer

Research and Technical Specialist in Cell Biology

We are offering employment for the position of Research and Technical Specialist at the Department of Molecular Biology, Institute of Biochemistry, Faculty of Biology, University of Warsaw. The position is part of the project no. TEAM NET FENG.02.03-IP.05-0113/24, funded by the Foundation for Polish Science, titled: "*Development of an innovative, high-throughput platform for functional screening of human pancreatic endocrine cells.*"

Project Leader at UW: Dr. Tomasz Kamiński.

Description of the programme/project/initiative: The development of an innovative, high-throughput platform for functional screening of human pancreatic endocrine cells is the subject of the project. Diabetes is a chronic metabolic disease with a steadily increasing global incidence. The project proposes the use of a novel high-throughput flow system for culturing differentiating pancreatic cells on a microscale, enabling advanced preclinical studies, in vitro diabetes modeling, and more efficient drug testing.
The platform developed as part of the project will accelerate, standardize, and increase the precision of research, thereby reducing the costs of developing new therapies for patients with diabetes. The project will be carried out by a consortium formed by Adam Mickiewicz University in Poznań (leader), the University of Warsaw, and the Jagiellonian University in Kraków. The research teams are led by Prof. Małgorzata Borowiak (AMU), Prof. Józef Dulak (JU), and Dr. Tomasz Kamiński (UW).

Project Website: https://teamnet.web.amu.edu.pl/en/team-feng-net-en/

Requirements

- Hold a minimum of a Master degree in biology, biotechnology or related fields (obtained prior to the start of contract)
- Very good command of English
- Good organization skills
- Strong communication skills and ability to work in a team
- Knowledge of cell culture techniques and biochemical analyses.
- Experience in the use of fluorescence microscopy and basic image analysis methods.

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http://www.microfluidics.biol.uw.edu.pl

Responsibilities

- Development of methods for the cultivation and co-cultivation of SC-β (pancreatic β-cells derived from human pluripotent stem cells) and endothelial cells in a microreactor format (e.g. https://advanced.onlinelibrary.wiley.com/doi/full/10.1002/advs.201903739 or https://www.nature.com/articles/s12276-024-01380-2).
- Conducting studies to identify the most effective method for cell encapsulation and incubation (e.g. https://www.sciencedirect.com/science/article/pii/S2666166723003003 or https://journals.biologists.com/dev/article/149/20/dev200263/276630/Microgel-culture-and-spatial-identity-mapping).
- Image analysis to assess cell differentiation and viability in microcultures
- Evaluation of cell viability through biochemical assays (e.g., insulin secretion analysis) and verification of the absence of glucagon expression.
- Preparation of scientific publications and patent applications.

Employment Conditions

- Fixed-term employment contract as a research and technical specialist
- Base salary: approximately 10 000 PLN gross/month, plus an 8.3% annual bonus. Estimated total net salary: around 8 200 PLN/month (approximately 1 900 EUR).
- Contract starting on August 1, 2025, or later for a period of up to 32 months with a possible extending for additional 4 months.
- Opportunities for training, professional development, and participation in scientific conferences.
- Option to apply to the University of Warsaw Doctoral School at any point during the contract period
- Co-authorship on publications and patent applications

Recruitment

Application deadline: June 30, 2025, at 11:59 PM.

Required Documents

- Copy of diploma(s) for completed studies
- CV
- Cover letter
- Contact details of at least two referees (email, and optionally phone number)
- Consent for the processing of personal data. The personal data processing information form should be downloaded from the University of Warsaw website.

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Application Submission

By email to k.sienkiewicz@uw.edu.pl with the subject: "**specialist_TEAM_NET_FENG_cell_biology**". Candidates will receive an email confirmation of document submission. If no confirmation is received, please contact k.sienkiewicz@uw.edu.pl.

For questions regarding the scientific aspects of the project, requirements, or scope of responsibilities, please contact ts.kaminski2@uw.edu.pl.

We reserve the right to contact only selected candidates. Recruitment results will be communicated via email to the address provided in the application documents.

Equal Opportunities

The constitutional principle of equal treatment of all members of the University community is a cornerstone of its operations. The University promotes diversity and opposes discrimination. It upholds the highest ethical standards, safeguards scientific integrity, and adheres to the principles of the European Charter for Researchers.

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