

PhD student scholarship in microbiology

Position in the project: PhD student, starting from 01.10.2024

Scientific discipline: microbiology, microfluidics

Stipend amount/month: 4000-5000 PLN net; after successful application to the Doctoral School scholarship is increased to 7700 PLN net (~1500 EUR) in years 1-2 and 8700 PLN net in years 3-4

Period of stipend agreement: 48 months

Institution: The University of Warsaw, Faculty of Biology / Warsaw, Poland

Project leader: Dr Tomasz Kaminski

Project title: Ultrahigh throughput studies of microbial consortia with DNA barcoding and droplet microfluidics.

Project description: <https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2023-06-15-lut7739ikitila/streszczenia/595999-en.pdf>

Key responsibilities:

1. Experimental work:
 - a) Development of barcoding strategies for encoding the reaction conditions and sequencing 16S DNA from bacterial consortia.
 - b) Implementation of existing and development of new assays with ultrahigh-throughput optical readout in droplet format.
 - c) Execution of microfluidic experiments with screening of microbial consortia.
 - d) Biochemical characterization of selected microbial consortia.
2. Tracking current research trends in the scientific literature.
3. Analysis and publication of the obtained results, participation in the preparation of patent applications, and potential commercialization of the research results
4. Participation in seminars and scientific conferences.
5. Optional supervision of undergraduate students involved in research work in the project.

The successful candidate is expected to enroll in the Doctoral School of the University of Warsaw <https://szkolydoktorskie.uw.edu.pl/en/>

Profile of a candidate/requirements:

1. Master's degree in biology, biotechnology or related fields (the diploma should be obtained before September 2024).
2. Minimum 1 year of research experience in microbiology or molecular biology.
3. Working knowledge about environmental microbiology, genomics or synthetic biology.
4. Basic knowledge of bioinformatic analysis of sequencing data.
5. Experience in microfluidics or analytical chemistry is a plus.
6. Very good knowledge of English.
7. Willingness to gain new expertise.

Required documents:

1. Short motivation letter
2. Curriculum vitae including: a detailed description of the academic degrees, titles of theses, names and affiliations of supervisors, places of employment, list of scientific publications, conferences, awards and trainings.
3. Address details of at least one direct supervisor/scientist who may recommend the given candidate.
4. Copies of obtained diplomas.
5. For the purpose of the recruitment process, please attach a scan of signed, written permission for recruitment-related personal data processing, which states: „I give permission to the University of Warsaw, registered at the address of ul. Krakowskie Przedmieście 26/28, 00-927



Warszawa, to process my personal data for the purposes of carrying out the recruitment procedure, choosing the employee, and entering into an employment contract with the University of Warsaw, if applicable. I have been informed about my legal rights and obligations in relation to these actions. I acknowledge that providing the aforementioned personal data is done by me on a voluntary basis.

In case of any questions regarding recruitment, candidates are encouraged to contact the project leader ts.kaminski2@uw.edu.pl

Please submit the following documents preferably in one PDF by e-mail to ts.kaminski2@uw.edu.pl; with the annotation “**SonataBis_Microbiology_PhD_2024**”

Application deadline: 03.06.2024

For more details about the position, please visit:

- Lab website: <https://microfluidicsuw.com/>