PhD student scholarship in microfluidics

Position in the project: PhD student, starting from 01.10.2024Scientific discipline:microfluidics, biophysics, optics, engineering,Stipend amount/month: 4000-5000 PLN net; after successful application to the Doctoral Schoolscholarship is increased to 7700 PLN net (~1500 EUR) in years 1-2 and 8700 PLN net in years 3-4Period of stipend agreement:48 monthsInstitution:The University of Warsaw, Faculty of Biology / Warsaw, PolandProject leader:Dr Tomasz KaminskiProject 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) Setting up automated optofluidic systems for high throughput bacteria encapsulation, picoinjection and droplet sorting (e.g. <u>doi/full/10.1021/acs.analchem.2c04144</u>).
 - b) Development of new microfluidic technologies specifically multimodal droplet sorters (e.g. <u>doi/full/10.1002/admt.202101053</u>) and systems for optical barcoding of droplets (e.g. <u>doi/10.1002/adom.202302564?af=R</u>).
 - c) Execution of experiments with screening of microbial consortia
 - 2. Analysis and publication of the obtained results, participation in the preparation of patent applications, and potential commercialization of the research results
 - 3. Participation in seminars and scientific conferences.
 - 4. 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 physics, biophysics, engineering, analytical chemistry or related fields (the diploma should be obtained before September 2024).
- 2. Working knowledge about spectroscopy, laser systems and laboratory automation.
- 3. Experience in building experimental customized optical setups.
- 4. Knowledge of programming (e.g. LabView, Matlab, Python).
- 5. Experience in microfluidics 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 <u>ts.kaminski2@uw.edu.pl</u>; with the annotation "**SonataBis_Microfluidics_PhD_2024**"

Application deadline: 03.06.2024

For more details about the position, please visit:

• Lab website: https://microfluidicsuw.com/



