

INSTITUTION: Institute of Fundamental Technological Research, Polish Academy of Sciences

CITY: Warsaw

POSITION: Assistant

SCIENTIFIC DISCIPLINE: microfluidics, biomedical engineering

ANNOUNCEMENT DATE: September 7, 2020

SUBMISSION DEADLINE: September 25, 2020

KEYWORDS: microfluidics, biotechnology, microbiology

We offer: Employment as an assistant in the Department of Biosystems and Soft Matter of the IPPT PAN.

The assistant's task will be:

- Development of innovative microfluidic techniques allowing for precise handling of small droplets (with volumes smaller than 1 microliter) and the application of these techniques to microbiological research.

- Development of an automatic device carrying out given laboratory procedures on cell cultures.

As part of the planned works, microfluidic solutions will be developed and applied, which on the one hand will ensure high precision of operations performed on droplets, and on the other hand, will be easy to use in portable, automated laboratories (Lab on a Chip). This will be achieved by building special geometries of microfluidic channels, which will cause the formation of droplets and the spontaneous performance of specific operations on the drops.

REQUIREMENTS:

- completed university studies in a technical or science faculty
- experience in scientific work documented by publications, especially experience related to the subject of research
- motivation for scientific work, in particular, scientific interest in the subject of the project
- independence and innovation in scientific work
- communication skills and the ability to work in a research team
- knowledge of the English language

TASKS:

- implementation of microbiological techniques in microfluidic systems
- design and manufacture of microfluidic devices (including operation of a CNC milling machine)
- design and execution of experiments using cell and bacterial cultures
- analysis of the obtained data

WE OFFER:

- work in a young team
- interesting research problem, which is an interdisciplinary scientific challenge
- work in a research project devoted to microfluidics and its biomedical applications
- direct access to the microfluidic and biological laboratory, fully equipped with modern equipment necessary for the implementation of the project

THE CONDITIONS OF EMPLOYMENT:

- 36-month full-time employment contract

REQUIRED DOCUMENTS:

- 1) an application addressed to the Director,
- 2) research and professional curriculum vitae with a list of publications, the number of citations and the H index,
- 3) personal questionnaire,
- 4) a copy of the MSc diploma
- 5) cover letter
- 6) The documents should be accompanied by the statement:

I consent to the processing of my personal data contained in my offer for the needs of the recruitment process "(in accordance with the Act of August 29, 1997 on the protection of personal data, Journal of Laws No. 133, item 883, as amended) .

PLEASE, SEND THE APPLICATION TO:

Department of Employee Affairs of IPPT PAN
ul. Pawińskiego 5 B, 02-106 Warsaw

Contact persons for additional information:

Professor Tomasz Lipniacki, e-mail: tlipnia@ippt.pan.pl
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