

POSITION: Experienced researcher in microfluidics

Who we are

BioSense Institute cross-fertilizes two vital sectors of today: ICT and agriculture. Recognizing that ICT plays a pivotal role in ensuring sustainable, smart and inclusive growth of agriculture, we focus on multidisciplinary, game-changing and needs-driven research in nano and microelectronics, new materials, communications, signal processing, remote sensing, biosystems, artificial intelligence, IoT and big data, driven by our desire to make a significant impact to the society in which we live in. BioSense Institute has coordinated or participated in a large number of international research projects, including over 30 H2020 projects.

Through the project ANTARES, the first ranked in the course of the prestigious Horizon 2020 Teaming Call, BioSense Institute is funded with 28 M€ to become European Centre of Excellence for advanced ICT solutions in agriculture. The project budget is dedicated to the attracting global talent as well as to the construction of the new building and purchase of the state-of-the-art equipment.

BioSense Institute is situated in Novi Sad, Serbia. Novi Sad is a friendly and safe city of approx. 350.000 inhabitants in the north of Serbia, on the banks of the Danube river, facing the northern slopes of Fruška Gora mountain. Due to the combination of a vibrant social and cultural life with particularly favorable cost of living (for details please check <https://www.numbeo.com/cost-of-living/>), Novi Sad is an ideal choice for a broad range of people, from busy single professionals to families with schoolchildren.

Job description:

- Design and development of microfluidic-based sensor platforms for applications in agriculture and environmental protection.
- Design and construction of microfluidic chips with CAD software.
- Fabrication, integration, and testing of microfluidic chips, devices, and systems.
- Development of novel microfluidic fabrication technologies.
- Systematic planning and carrying out experiments on your own responsibility.
- Supervision of PhD and Master Students.
- Writing of grant proposals.

General requirements:

- PhD degree in Biotechnology, Physics, Electrical or Mechanical Engineering, or related fields.
- A minimum of three years of experience in the design, fabrication, and testing of microfluidic chips and devices.
- Reliable experience with CAD software for the design and the construction of microfluidic structures.
- Experience with microscopy, image analysis, and data evaluation.
- Excellent academic or industrial track record.
- Solid track in research funding proposal preparations and project coordination/management is preferable.
- Excellent English skills
- Ability to structure and document work properly.
- Ability to create and develop ideas and generate outstanding scientific results.
- Ability to integrate and work in an interdisciplinary team

Specific requirements:

- Extensive experience in modeling & simulation of microfluidic chips and systems
- Extensive experience in microfluidic system fabrication, integration, and testing
- Knowledge in the field of microfabrication technologies (photolithography, metal patterning, soft lithography, and/or rapid prototyping technologies)
- Experience with microfluidics on-chip reagent storage
- Knowledge in the field of 3D mechanical CAD (SolidWorks, Autodesk Fusion 360, or similar) and prototyping technologies such as machine processing, 3D printing, or inkjet molding
- Excellent understanding of sensing technologies
- Experience in electrochemical, optical, and/or biosensing is preferred
- Experience and knowledge of electronics aspects of sensors
- Ability to understand a variety of technical disciplines, work in a multidisciplinary environment in an autonomous yet collaborative fashion.

We Offer:

- The ability to make a difference in a dynamic and rewarding working environment in a top-ranked European Centre of Excellence
- The opportunity to work in a team comprised of renowned experts and using state-of-the-art laboratories
- The possibility to develop own research team and pursue own cutting-edge research directions
- Favourable cost of living and advanced quality of life
- Full administrative support in relocation for the entire family

Earliest Starting Date: March 2021

Contract Duration: up to 3 years (with a possible extension or a permanent (tenure) position based on the performance)

Submit your applications including a detailed CV, list of publications and any other relevant information to jobs@biosense.rs

Informal enquiries should also be sent to jobs@biosense.rs