POSITION: RESEARCH LEADER IN DEVELOPMENT OF SENSING DEVICES

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, robotics, IoT and big data, driven by our desire to make a significant impact to the society in which we live in.

BioSense Institute has been recently ranked as No.1 Centre of Excellence in Europe in the course of the prestigious Horizon 2020 Teaming Call and has been awarded a grant of 28 M€ that will be invested in developing state-of-the-art research infrastructure and attracting global talent.

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.

General Requirements: Highly experienced, senior (8+ years since obtaining the PhD in a relevant field), with an innovation-driven mentality, game-changer, capable of opening new research avenues, leading a team of researchers and expanding our international network of contacts, good track record in high-impact publications and in attracting funding under conditions of global competition. Excellent English.

Understanding of challenges in the global agrifood sector is desirable.

Earliest Starting Date: October 2017

Contract Duration: up 6.5 years (with a possible extension or a permanent (tenure) position based on the performance;)

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 develop own research team and pursue own cutting-edge research directions
- The potential to commercialize research results through strategic collaborations with industry and multi-faceted support from in-house Business Development Department
- Favourable cost of living and advanced quality of life
- Full administrative support in relocation for the entire family

Specific Requirements: In-depth theoretical knowledge with proven practical and experimental competences and a long-standing experience in one of the following fields (or similar): microelectronics, nanoelectronics, materials science, sensor technologies, terahertz technologies, photonics, spectroscopy, physics, optics, acoustics.

Strong ability for interdisciplinary research and application of specific theoretical, practical, and experimental expertise to the development of new sensing devices and methodologies.

Research Description: The development of innovative sensing methodologies, devices, and platforms for applications across the entire agrifood chain (e.g. sensing of soil and plant properties, animal health status, environmental conditions, specific pollutants, gaseous and liquid samples, quality of packed and unpacked food products etc.) requires focused research efforts across a range of well-established and emerging disciplines (micro/nanoelectronics, micro/nanofluidics, development of

functionalized materials, EM and acoustic artificial materials, bionanosensing, nanoplasmonics etc.) and strongly supported by a range of micro/nanofabrication and characterisation techniques related but not limited to optical and e-beam lithography, organic and flexible electronics, MEMS/NEMS, microwave, terahertz, and optical imaging and spectroscopy.

We are looking to develop novel sensors and sensing methodologies for the parameters that could not have been sensed before, as well as to advance the existing sensing solutions in line with the IoT (Internet-of-Things) concept.

Number of Positions: 2

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