

POSITION: EXPERIENCED RESEARCHER IN BIG DATA

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: Finished post-doc, good publication track record, innovation-driven mentality, capable of working individually as well as a part of the team. Excellent English.

Understanding of challenges in the global agrifood sector is desirable.

Exceptionally, excellent candidates who have not finished post-doc will be considered. (PhD is required.)

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 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

Specific Requirements: Expertise and a long-standing experience in machine learning and high-performance computing as well as experience in one of the following fields (or similar): cluster computing frameworks, Big Data analytics and visualization, streaming data processing, parallel data processing in GPU, data fusion. Strong ability to develop and apply state-of-the-art algorithms in various data-intensive domains: satellite imaging, crowdsourcing, bioinformatics, IoT, etc. Experience in applications in agricultural and food domains would be an asset but is not required.

Research Description: Development of new big data solutions and high-performance computing workflows for knowledge discovery in biosystems. The candidate is expected to apply advanced data analytics (deep learning, distributed machine learning, graph mining...) to massive data sets coming from the entire agrifood chain (environmental sensing, phenotyping, genomics, production and food quality monitoring...), which require algorithm development based on, but not limited to: TensorFlow, Theano, Caffe, CUDA, Spark, MLib, Python... We are aiming to exploit

parallelism and distributed computing to address speed and scale issues and develop state-of-the-art solutions for extracting valuable information from big data.

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