

POSITION: MECHATRONICS ENGINEER

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, development and implementation of mechatronic products and systems such as robots, actuators, instruments, and sensors.
- Electro/mechanical assembly of prototype designs.
- Debugging, testing and integration of mechatronic systems.
- Research, selection, or application of sensors, actuators, communication modules or control devices for mechatronic systems.
- Identification and selection of materials appropriate for mechatronic system design.
- Upgrade of the design of existing devices by adding mechatronic elements.

General requirements:

- Master's or higher degree in Electrical, Mechanical, Computer or Robotic Engineering or similar areas
- 5 years of work experience related to the job description in an academic or industrial setup. In exceptional cases, candidates with less experience will be considered.
- Ability and desire to learn new concepts and skills quickly in a multidisciplinary environment.
- Excellent English

Specific requirements:

- Extensive experience with designing, prototyping, and testing mechatronic systems.
- Extensive experience with 3D mechanical CAD (SolidWorks, Autodesk Fusion 360 or similar) to design and simulate mechatronic design concepts.
- Solid experience with prototyping technologies such as but not limited to machine processing, 3D printing and inkjet molding.
- Experience with PCB CAD (e.g. Altium Design, Eagle...).
- Experience with embedded software design.
- Ability to conceptualize and implement the design of complex mechanisms.

- Conduct studies to determine the feasibility, costs, or performance benefits of new mechatronic equipment.
- Familiarity with instrumentation & tools such as oscilloscopes, function generators, etc.

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
- Favourable cost of living and advanced quality of life
- Full administrative support in relocation for the entire family

Earliest Starting Date: January 2020

Contract Duration: up to 4 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