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UNIVERSITY
OF BERN

ARTORG CENTER
BIOMEDICAL ENGINEERING RESEARCH

Software Engineer in Machine Learning for Healthcare

The [ARTORG Center for Biomedical Engineering Research](#) is the University of Bern's transdisciplinary Center of Excellence for medical technology research. Its mission is to tackle unmet clinical needs and envision future challenges in diagnosis, monitoring and treatment to create viable healthcare technology solutions with imagination, agility and purpose. Its projects run from discovery and basic research to clinical translation.

The [Artificial Intelligence in Health and Nutrition \(AIHN\)](#) is looking for motivated candidates with excellent technical skills to join our team. The candidate would be a key member of the AIHN scientific team, taking a crucial role in the development and deployment of our technology. We are looking for people who love what they do, with good communication skills, willing to learn and able to understand the requirements of the field and to contribute with their experience to solve challenging problems in collaboration with our team.

Tasks

- develop structured code for the support of the ongoing projects
- develop new features and applications
- maintenance and further development of existing systems and applications
- close collaboration with the team
- communication and collaboration with external partners and experts

The AIHN lab works on medical and nutrition applications aimed to automatize and optimize diagnostic procedures and treatment and to support the AI-based dietary monitoring and assessment.

Requirements

- Master in computer science, engineering, or applied mathematics.
- Solid programming skills in Python or C/C++.
- Familiarity with Linux System Administration, Django and Docker.
- Android or IOs app development is a plus.
- Excellent communication skills in English required (working language at the ARTORG Center).
- Commitment to multidisciplinary research.

We offer

- Creative and international environment to conduct competitive research in an interdisciplinary team
- Strong links to the Bern University Hospital (Inselspital) to provide a coherent and holistic view of how AI in healthcare can benefit patients
- Competitive work-package

Application

Applications should be sent to Prof. Stavroula Mouggiakakou (stavroula.mouggiakakou@artorg.unibe.ch). Applications should include: i) motivation letter, ii) detailed curriculum vitae, iii) abstract of the master thesis, iv) contact details of two referees. The documents should be combined into ONE pdf file.

About the University of Bern

The University of Bern is located at the heart of Switzerland. Internationally connected and regionally anchored, it cultivates exchange with society and strengthens partnerships between science, medicine, business, and politics. The University of Bern is committed to a deliberate and ethical responsibility towards people, animate and inanimate nature. As an important educator, promoting enterprise and industry in the region and beyond, it distinguishes itself through problem-oriented research into questions of pressing social relevance. The University of Bern is an equal opportunity employer, promotes healthy work-life-balance and safe working environments, and strives to increase the number of women at all levels in its faculties.