Medical informatics and AI researcher

Job description

You will be developing AI-connected medical informatics at the VUB as part of the European Horizon 2020 Hosmart-AI project. In this interdisciplinary position, you will work together with researchers and legal experts at the VUB, as well as medical practitioners and ICT specialists at the University Hospital Brussels (UZ Brussel), for two key aims: i) finding solutions to connect and integrate patient data, ranging from medical images to molecular information, in order to ii) analyse these integrated data with artificial intelligence approaches. In addition, you will liaise with the Hosmart-AI project (https://www.hosmartai.eu), a marketplace for medical AI-based solutions. This includes assisting the development of two Hosmart-AI pilot projects at the VUB, within the UZ Brussels: the Smart Cathlab assistant, an AI based system to help clinicians with cardiological interventions (https://www.uzbrussel.be/en/web/centrum-voor-hart-en-vaatziekten), and TumorScope, a project to assist with the identification of solid tumors, in particular glioma (http://tumorscope.be/).

The involved research groups are i) the Bio2Byte group led by Prof. Dr. Wim Vranken, which works on the prediction of protein characteristics, and the interpretation of these predictions in relation to the life sciences, such as molecular causes of human diseases (see https://bio2byte.be/); ii) the Centre for Cardiovascular Diseases (CHVZ), which works with the state-of-the-art Cathlab (Philips) for Interventional Cardiology, with the Pilot Smart Cathlab led by Dr. Jean-Francois Argacha and Prof Dr. Bernard Cosyns; iii) the medical image analysis group led by Prof. Dr. Jef Vandemeulebroucke, part of the electronics and informatics department (http://www.etrovub.be); iv) the BrightCore genomics high throughput core (http://www.brightcore.be). These teams offer an open, dynamic and rewarding working environment, focused on teamwork and collaborations to stimulate initiative taking, discussion and originality.

Profile

- Master’s or PhD degree related to medical informatics
- Experience with interdisciplinary environments, including research, clinical and ICT
- Good understanding of data analysis and AI based approaches in medicine
- Knowledge of data management and developing solutions for secure data storage and exchange
- You are a team worker, who enjoys solving problems in close collaboration with others
- You have an excellent command of English, with experience in writing reports
- You enjoy communicating with others, and making connections between them
- Previous experience with Horizon 2020 projects (or similar) is desirable

What we offer

The position is immediately available, for 2 years initially, with prospects to extend beyond this time period. You will be located at the (IB)² Interuniversity Institute of Bioinformatics in Brussels (http://ibsquare.be/), Etterbeek VUB/ULB campus (http://www.etrovub.be/), and at the VUB/UZ Brussels campus in Jette (www.uzbrussel.be).

Applications and further information

Please contact Wim.Vranken@vub.be or dieter.decourt@uzbrussel.be for additional information. To apply, please fill in this online form: https://bit.ly/medinfoai, with a 31th of August 2021 23:59 deadline. You have to include, in English: 1) a CV, 2) a cover letter briefly stating your background, as well as your motivation to apply for this position.