Postdoc in Health Technology

Ref 2021/2910

At Mälardalen University people meet who want to develop themselves and the future. We have 19,900 students reading courses and study programmes in Business and Economics, Health, Engineering and Education at our campuses in Eskilstuna and Västerås, or by distance. We conduct research within all fields of education and have internationally prominent research in Future Energy and Embedded Systems. Our close collaboration with the private and public sectors enable us at MDH to contribute towards the better health of people and towards a more sustainable planet.

At the School of Innovation, Design and Engineering our students are studying to be for example innovators, entrepreneurs, illustrators, communications officers, network technicians and engineers. Here we have the research specialisations of Embedded Systems, and Innovation and Product Realisation. Our work takes place in cooperation with and in strategic agreements with companies, organisations and public authorities in the region.

Employment information

Employment: Temporary employment, 2 years
Scope: Full time
Closing date for application: 2021-12-15
Campus location: Västeras
School: School of Innovation, Design and Engineering, (IDT)

Position description

The postdoc will develop online adaptive AI in advanced neurorehabilitation with the purpose to exploit artificial learning to optimize neural learning and plasticity. Intelligent adaptation of signal processing and decoding algorithms will be investigated to promote online Brain-Computer Interface control and to stimulate neuroplasticity for generating sustained behavioral outcomes (e.g., motor recovery).

The project is interdisciplinary merging biomedical engineering, AI and health robotics.

The position is a temporary employment of 2 years.

Qualifications requirements

The applicant is required to have a PhD degree in Computer Science/Engineering, Biomedical Engineering, Computational Neuroscience/science or similar.

The applicant must have completed the degree no more than three years before the end of the application period.
Specific requirements for the position are knowledge in signal processing and artificial intelligence. The applicant should be fluent in English, both written and spoken.

Decisive importance is attached to personal suitability. We value the qualities that an even distribution of age and gender, as well as ethnic and cultural diversity, can contribute to the organisation.

**Merit**

Knowledge in EEG signal acquisition and processing, Brain-Computer Interfaces and programming are a merit for the position.

**Application**

Application is made online. Make your application by clicking the "Apply" button below.

The scientific publications that you do not have in digital form are to be sent by post to:

Mälardalen University  
Division of Human Resources  
Ref.no: 2021/2910  
Box 883  
721 23 Västerås

The applicant is responsible for ensuring that the application is complete in accordance with the advertisement and will reach the University no later than closing date for application.

We look forward to receiving your application.

We decline all contact with recruiters and salespersons of advertisements. We have made our strategic choices for this recruitment.

**Contact person**

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