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Job position (PhD student)

Job description

The BSICoS group (Biomedical Signal Interpretation and Computational Simulation) of the University of Zaragoza is looking for a researcher to develop his/her PhD on signal processing and biomedical data for patient monitoring in wearable devices. The work is part of the project "Monitoring and assessment of obstructive sleep apnea and its outcomes through the processing of physiological signals of wearables", whose objective is the development of methods for sleep disorders diagnosis through wearable devices.

The tasks of the position include the study and analysis of wearable devices for sleep monitoring, the adaptation and implementation of signal processing algorithms for its integration in the device and the validation of the proposed solution in real patients.

Requirements

Bachelor's and Master's in Engineering (Telecommunication, Computer Science, Biomedical, Electronics and Control, or similar), Mathematics or Physics.

Knowledge of microcontroller programming, signal processing, C, Matlab, Python, as well as a high level of English will be valued.

BSICoS Group of the University of Zaragoza

The BSICoS (Biomedical Signal Interpretation and Computational Simulation) group, from the University of Zaragoza, belongs to the Instituto de Investigación en Ingeniería de Aragón (I3A), the Instituto de Investigación Sanitaria de Aragón (IIS Aragón), and the Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN).

The main objective of the group is to increase the impact of ICTs in health applications, through the development of biomedical signals processing methods, guided by physiology, for the personalized interpretation (diagnosis, prognosis and treatment) of diseases and health conditions of cardiovascular, respiratory and autonomic nervous systems.

Contact

For more information about the position, contact Eduardo Gil (edugilh@unizar.es) and Raquel Bailón (rbailon@unizar.es) .