

# PhD Student in Control Engineering for Biomedical Applications

for a period of three years starting in the fall 2019. The outstanding candidate

## Your tasks:

- Will be integrated in a research group in biomedical signal processing and control combining experimental methods and technological development to investigate new diagnostic and therapeutic tools that benefit human health
- Will work on a multidisciplinary research project funded by the Swiss Innovation Agency (Innosuisse) that aims to develop a novel dental device by means of an ultrasonic transducer

## Your Profil:

- Master's Degree in electrical, biomedical, (micro-) mechanical engineering with specialization in mechatronic systems or related field
- A solid background in feedback control and electronics is essential, skills in system modeling and programming (MATLAB/Simulink or Python) are necessary and project related experience in piezoelectric transducers is advantageous
- Strong writing skills in English are indispensable, while knowledge of French or German is desired

## We offer:

- Be part of an applied research project that is initiated in cooperation with the Swiss Institute for Translational and Entrepreneurial Medicine of the University of Bern and the industrial partner E.M.S. Electro Medical Systems S.A.
- The possibility to advise undergraduate students in her/his domain of expertise and to be involved in teaching of engineering courses
- An academic track, which is managed by the Graduate School in Cellular and Biomedical Sciences of the University of Bern ([www.gcb.unibe.ch](http://www.gcb.unibe.ch))

Please, hand in your application, including a letter of motivation, complete CV and records before August 31st 2019. Please note that we can only accept online applications for this position.

Questions can be directed to Prof. Dr. Thomas Niederhauser, Institute for Human Centered Engineering: Tel. +41 32 321 67 63 / Mail. [thomas.niederhauser@bfh.ch](mailto:thomas.niederhauser@bfh.ch).

You can find more vacancies here: [www.bfh.ch/jobs](http://www.bfh.ch/jobs) or [www.be.ch/jobs](http://www.be.ch/jobs)