

The ARTORG Center for Biomedical Engineering Research  
University of Bern, Switzerland, seeks

## **PhD Student in Computational Mechanics**

for a period of three years starting in the spring 2019.

The outstanding candidate will be integrated in a research group in biomechanics combining experimental and computational methods to test original scientific hypotheses and develop new diagnostic methods or medical devices. She/he will work on a research project funded by the Swiss National Science Foundation that will develop a new diagnostic tool for osteoporosis.

The project is initiated in cooperation with the Service for Bone Diseases of the University of Geneva (HUG) as well as the Polyclinic for Osteoporosis of the University Hospital in Bern. The candidate will advise undergraduate students in her/his domain of expertise and may be involved in teaching of biomedical engineering.

The candidate must hold a Master's Degree in computational mechanics or related field. A solid background in mechanics and computational methods is essential, practice in finite element analysis, broad programming skills are necessary and project-related experience in biomechanics is advantageous. Strong writing skills in English are indispensable, while knowledge of French or German is desired.

The University of Bern aims at increasing the proportion of women in its scientific personnel and explicitly encourages qualified women to apply for this position. The salaries correspond to the ones published by the Swiss National Science Foundation ([www.snf.ch](http://www.snf.ch)) and the academic track 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, send your application, including a letter of motivation, complete CV and records before January 31st 2019 to

Prof. Philippe Zysset  
Institute for Surgical Technologies & Biomechanics  
University of Bern  
Stauffacherstrasse 78, CH-3014 Bern  
[philippe.zysset@istb.unibe.ch](mailto:philippe.zysset@istb.unibe.ch)  
[www.istb.unibe.ch](http://www.istb.unibe.ch)