

## **Job description**

FEops is one of the partners in the new EU-project “Personalised In-silico Cardiology” (PIC), with 15 young researchers divided between 10 different European research institutions and companies. The vision of this prestigious ITN training network is to transform healthcare through the integration of in-silico technologies, for example, by improved treatment planning.

We are looking for a highly motivated young engineer (F8) who wants be involved in research related to patient-specific computer simulation of transcatheter valve interventions (e.g. transcatheter aortic valve implantation – TAVI, or transcatheter mitral valve replacement – TMVR).

You will first be trained in the existing simulation workflow for TAVI, and learn how to generate 3D patient models based on medical images, and to pre- and post-process patient-specific computer simulations. In a second step, you will be involved in several research projects that may be related to further streamlining the simulation workflow, improving the predictive power of the simulations, etc.

## **About FEops**

FEops, a fast growing medtech scale-up company, is a recognized pioneer in the field of physics-based simulations for minimally invasive cardiovascular devices and procedures. We offer services to medical device companies as well as to medical specialists and physicians around the world. Our computer simulations have proven to provide medical device developers and manufacturers with unique insights, thereby speeding up R&D processes and supporting device safety. Physicians, for their part, benefit from new patient-specific insights that help them work more efficiently while, most importantly, improving patient safety and outcomes.

## **Need to have**

- Master of science in biomedical engineering
- Strong academic record
- Good English communication skills (writing and speaking)
- Interest in medical image processing and patient-specific computer simulations
- Interest in computer programming
- Eager to learn attitude

## **Nice to have**

- Knowledge of Python
- Knowledge of finite element analysis
- Knowledge of computational fluid dynamics

## **Special rules for eligibility for ITN training networks**

Early-stage researchers shall, at the time of recruitment by the host organisation, be in the first four years of their research careers and have not been awarded a doctoral degree.

At the time of recruitment by the host organisation, researchers must not have resided or carried out their main activity (work, studies, etc.) in Belgium for more than 12 months in the last 3 years.

## **Contact**

For more information visit [feops.com](http://feops.com) and applicants should send their CV and motivation letter to [peter.mortier@feops.com](mailto:peter.mortier@feops.com).