FEA Consultant

Job description

We are looking for an FEA Consultant, with hands-on experience in Finite Element Analysis, to expand the engineering consulting unit of FEops. You will be involved in consultancy projects for (cardiovascular) medical device companies and will report to the Engineering Consulting Manager. After a training period, you will carry the following responsibilities:

- Setup computational analyses based on the customer’s needs
- Generate geometrical models of cardiovascular medical devices and patient’s anatomies
- Model the interaction between a medical device and a patient’s anatomy
- Analyze the fatigue life of a medical device using simulations
- Optimize the design and material of a medical device
- Generate technical reports for specific purposes (R&D, regulatory file preparation, production of marketing material, scientific publication)
- Contribute to increase the know-how of the engineering consulting unit (e.g. by building a dedicated simulation toolkit)
- Document the consultancy activity to comply with the Quality Management System

Company

Privately held FEops, headquartered in Gent, Belgium, is a leader in personalised computational modeling and simulation for structural heart interventions. FEops HEARTguide proprietary platform uses advanced computational modelling and simulation technology to provide clinicians and device manufacturers first-ever insights into the interaction between the device and the specific patient anatomy – preoperatively. Such insights have tremendous power to accelerate research and development of novel transcatheter-based solutions, as well as ultimately improve clinical outcomes in real-world hospital settings.

Must-Haves

Minimum 3 years experience (or PhD) in Finite Element Analysis using Abaqus
Experience with programming
Teamplayer
Problem-solving attitude and respect for deadlines
Analytical skills, creativity and logical thinking
Fluent in English

Nice-to-Haves

Experience with CFD (OpenFoam), FSI or optimization software (Isight)
Experience with segmentation/image processing (Mimics)
Experience with computational modelling of soft tissue biomechanics, Nitinol, fatigue safety
python / pyFormex scripting
Linux (Ubuntu)
webGL visualization

We offer

* Competitive salary plus extras
* Opportunity to grow in a young dynamic scale-up company
* Opportunity to work from home (part-time)
* Stimulating environment and challenges
* Contribute to life-saving technology

Contact

For more information visit feops.com or linkedin. Applicants should send their CV and motivation letter to gianluca.desantis@feops.com.