

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

# YES.

We'll show you how at Fraunhofer.

INTERESTED IN COMPUTER ANIMATION AND MEDICAL VISUALIZATION? THEN HELP US TO BRING IT TOGETHER INSIDE MEVISLAB AND APPLY FOR A...

---

## BACHELOR'S OR MASTER'S THESIS

### Animation Framework for Medical Visualization

---

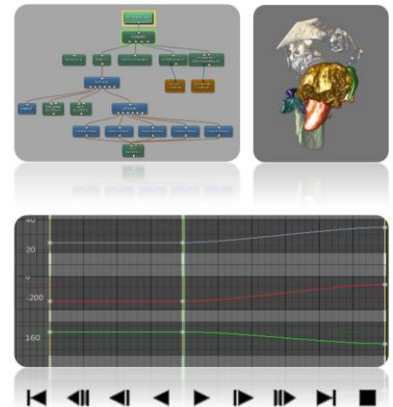
MeVisLab forms the basis for software development at Fraunhofer MEVIS. It uses a visual programming paradigm to facilitate rapid prototyping of image processing and visualization algorithms as well as complete applications. However, the generation of animations is complicated and very time-consuming using this platform. To be able to use MeVisLabs medical image analysis and visualization capabilities for the creation of animations, this work aims at the development of an animation framework inside MeVisLab. Methods based on key-framing and procedural animation might be investigated and combined to create a user-friendly method for the creation of medical animations in MeVisLab.

#### What we expect from you:

- Student of computer science, computational visualistics or similar field of study
- Experience in programming (C++, Python, QT)
- Interest in computer animation, medical visualization and user interface design
- Ideally, experience with 3ds Max, Cinema 4D, Houdini, Maya, Blender or similar

#### What you can expect from us:

- insights into cutting edge medical image analysis and visualization
- a friendly working environment close to the University of Bremen
- self-determined work and the freedom to co-create new tasks
- work within a young and interdisciplinary team



Fraunhofer MEVIS is one of the leading global and internationally networked research and development centers for computer assistance in image-based medicine. It follows a patient-centered and workflow-oriented approach to resolve clinically relevant issues in image-based diagnosis and therapy. Fraunhofer MEVIS focuses on epidemiologically significant diseases of the cardiovascular system, the brain, breast, liver and lung, as well as oncological disorders.

The Fraunhofer-Gesellschaft places a high value on the equality of men and women in the workplace. Women are underrepresented in this field, so we especially look forward to applications from women. Family and career are balanced through flexible work hours, part-time opportunities, parent-child spaces and emergency childcare. Employment of persons with disabilities is also a high priority for us and a candidate with disabilities who possesses equal qualifications will be given preference.

If you have any further questions, please contact:

Christian Schumann, PhD, Phone +49 421 218 59274, [christian.schumann@mevis.fraunhofer.de](mailto:christian.schumann@mevis.fraunhofer.de)  
Fraunhofer MEVIS, Am Fallturm 1, 28359 Bremen

Online Application: [internship@mevis.fraunhofer.de](mailto:internship@mevis.fraunhofer.de)