

# Internship in Biomedical Visualization: Transfer Functions

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The **Biomedical Image Informatics Group** at the VRVis research center (VRVis Forschungs-GmbH) in Vienna, Austria, is looking for your support in the course of a project that is conducted in close cooperation with [Dr. Renata Raidou](#) and [Prof. Eduard Gröller](#) from the [Institute of Visual Computing and Human-Centered Technology](#) of TU Wien.

We tackle biomedical image informatics challenges in a friendly and inspiring atmosphere by (pre-)processing, analyzing and visualizing large amounts of image data from medicine and biotechnology.

Currently, we are looking for a student (f/m) who would like to get insights into everyday business at Austria's front-runner Competence Center in the field of Visual Computing. You will support our research mission by solving the following task:

## Evaluating the State of the Art in Transfer Functions

In Volume Rendering, one of the most important topics is the definition of Transfer Functions (TFs). TFs link data information to visual properties that reveal relevant information to the user and enable interactive data exploration. In this project, the current state of the art in Transfer Functions should be evaluated in respect to their feasibility for visualization of challenging imaging data like 3D ultrasound.

## What you will bring to the team

- Bachelor's degree in computing, informatics, data science or a similar area
- Interest and knowledge in medical visualization
- Good knowledge of volume rendering
- Programming skills, in particular C++ and DirectX
- Creativity and enthusiasm

## What we offer in return

- Very friendly and supportive work atmosphere
- Flexible working hours and well-equipped workplace
- Excellent professional support by our team
- Opportunity to access our network of university partners (e.g. for bachelor/master thesis supervision)
- Opportunity for female researchers to join the Women in Visual Computing Network hosted by our colleagues
- Appropriate remuneration upon successful completion of the task

## Applications are always welcome!

Please contact Katja Bühler to send in your application or to inquire about additional information.

We especially would like to encourage female students to apply! By providing them with valuable insights into daily business at the junction of industry and science at an early stage of their careers, we aim to counter the lack of women researchers in the field of ICT proactively.

## Contact

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