



Universität der Bundeswehr München

Institut für **Mathematik und  
Computergestützte Simulation**

der Bundeswehr  
**Universität München**

**Computational Science and Engineering | Finite Element Methods | Structural Mechanics  
Medical Device Modeling | Deep Reinforcement Learning | Spline-Based Design**

We are looking for a

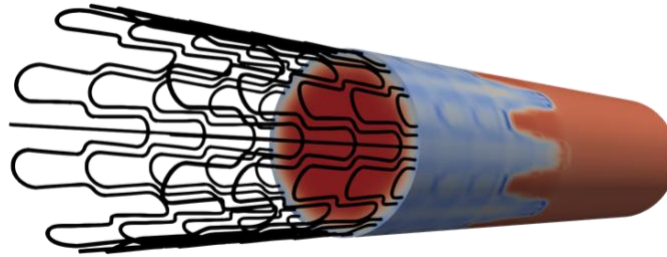
## **Research Assistant (m/f/d)**

(doctoral position, 100% E13 TVöD)

within the project

### **AutoStent**

## **An Autonomous Design Assistant for Aneurysm Repair**



Within the project, reinforcement learning methods are integrated with modern modeling techniques in structural mechanics to develop an autonomous design assistant for patient-specific medical implants (stents and stent grafts). A key element of this project is a flexible, FEM-based simulation tool for modeling the implants using spline geometry generation.

The German Research Foundation (DFG) and the Austrian Science Fund (FWF) funded the project. The project is carried out in close collaboration with the Institute for Lightweight Design and Structural Biomechanics at TU Wien (Prof. Dr.-Ing. Stefanie Elgeti). The research associate will work independently and in close collaboration with the project leaders and the institute head, contributing to the realization and further development of the research vision. The full-time position (100% E13 TVöD) is initially limited to a *two-year term*. An extension is possible with the successful acquisition of additional research funding and is actively pursued by the institute. The position is explicitly geared toward qualification for a doctorate (Dr.-Ing.), and this goal is actively supported.

#### **Details:**



[www.unibw.de/imcs-en/jobs](http://www.unibw.de/imcs-en/jobs)

#### **Application**

Applications will be reviewed as they are received until the position is filled. Please send your complete application documents (cover letter, CV, and certificates) in a single PDF file **as soon as possible** via email to:

**Prof. Dr.-Ing. Alexander Popp**

[imcs@unibw.de](mailto:imcs@unibw.de)