



Universität der Bundeswehr München

Institut für **Mathematik und
Computergestützte Simulation**

der Bundeswehr
Universität München

Doctoral Position at the Institute for Mathematics and Computational Simulation (Prof. Popp) as

Research Assistant (m/f/d)

(Salary according to pay grade E13 TVöD)

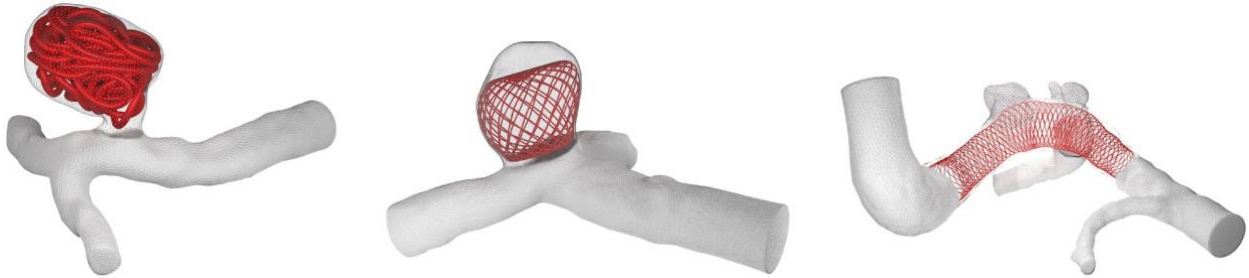
In the following research areas:

**Computational Science and Engineering | Finite Element Methods
Material Modeling | Multi-Scale Plasticity and Damage
Uncertainty Quantification | Bayesian Methods**

As part of the project

*TwlImplant—Digital Twin for Medical Implants
for the Treatment of Cerebral Aneurysms*

high-performance FEM simulation models are being developed for endovascular procedures in cerebral aneurysms, such as the placement of flow diverter stents. These models are validated in collaboration with clinical partners. The goal is to lay the foundation for a future fully digital process chain for the patient-specific design of such fine-mesh implants. The newly established Institute for Digital Implant Research (IDIR) in Kiel supports the project and is a close collaboration partner. The research associate will work independently and in close collaboration with the project leaders and institute head, contributing to the realization and further development of the research vision.



The full-time position (100% E13 TVöD) is initially limited to two years. An extension is possible with the successful acquisition of additional research funding and is actively pursued by the chair. The position is explicitly geared toward qualification for a doctorate (Dr.-Ing.), and this goal is actively supported.

About the Institute



<https://www.unibw.de/imcs-en>

All details about the research project



<https://www.unibw.de/imcs-en/job-opportunities/twimplant.pdf>

Application

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

Prof. Dr.-Ing. Alexander Popp

imcs@unibw.de

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