

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)

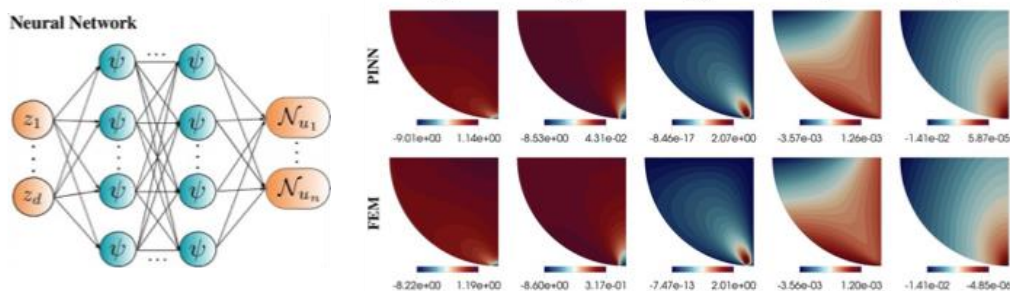
In the following research areas:

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

As part of the project

PICO—Physics-Informed Machine Learning
for Nonlinear Problems in Solid and Contact Mechanics

cutting-edge physics-informed machine learning techniques, such as artificial neural networks and neural operators, are being applied to nonlinear solid and contact mechanics problems. Beyond fundamental research on methods, a key objective is the industrial applicability of the software solutions developed, which is why this project is being carried out in close collaboration with the world market leader for FEM simulation software, Ansys Inc. 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/pico.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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