

The University of Koblenz is the youngest university in Germany – while also preserving a long-standing academic tradition. A multitude of transdisciplinary research projects spanning several institutions concentrated on a compact campus favourably affects our university routine. As the interdisciplinary university in the north of Rhineland-Palatinate with more than 9,400 students, we live the knowledge – transformation – innovation triad in our four profile areas “Education”, “Computer Science”, “Culture and its Mediation” as well as “Material and Environment”. We provide and conduct state-of-the-art teacher-training studies for all school types and maintain the transfer of our research results to civic society and regional businesses in a resilient and sustainable way. Join an aspiring university community and aid in advancing our further growth!



**We are looking for the following person to join the Mathematics Institute as soon as possible**

**research assistant (PostDoc) (m/f/d)**

In the project "Fluid dynamic shape optimisation with phase fields and Lipschitz methods" a PostDoc position is advertised.

The position is 100% full-time (currently 39 hours) and is temporary for two years. The position is generally divisible. The temporary employment is based on the regulations of the Act on Temporary Employment Contracts in Academia (WissZeitVG).

#### **Your tasks:**

The position is part of the research project "Fluid dynamic shape optimisation with phase fields and Lipschitz methods" funded by the German Research Foundation (DFG). The aim of the project is to develop novel computer-aided and mathematical tools for mathematical shape and topology optimisation.

#### **What you bring with you:**

The prerequisites are:

- a successfully completed university degree (excluding a Bachelor's degree) and a completed PhD with a strong background in numerical methods for PDEs and nonlinear programming, ideally in applied mathematics, mechanical engineering, computer sciences or computational physics
- ideally comprehensive knowledge in the field of shape and topology optimisation
- knowledge of modern scientific programming
- fluent written and spoken English and the ability to work in an interdisciplinary team
- very good problem-solving skills, willingness to learn, independent work, experience and willingness to write publications as well as good presentation skills are essential

The state of Rhineland-Palatinate and the University of Koblenz are committed to the concept of intensive student support and therefore expect a high level of teacher presence at the university.

#### **What we offer:**

- remuneration according to pay group 13 TV-L
- the usual social benefits in the general public sector according to TV-L (annual special payment, pension scheme (VBL))
- an exciting and interdisciplinary working environment with a motivated team
- compatibility of family and work, flexible working hours
- varied sports programme with health-promoting offers
- extensive opportunities for further education and training

The University of Koblenz welcomes applications from all age groups, regardless of gender identity, disability, ethnic or cultural background, religion, ideology or sexual orientation. We aim to increase the proportion of women and are therefore particularly interested in applications from women. In the event of under-representation, women with equivalent aptitude and qualifications will be given preferential consideration. Severely handicapped persons will be given preferential consideration if their professional and personal qualifications are otherwise equal.

For further information, please contact Prof Dr Michael Hinze (email: [hinze@uni-koblenz.de](mailto:hinze@uni-koblenz.de), phone: 0261 287 2310) and Dr Christian Kahle (email: [kahle@uni-koblenz.de](mailto:kahle@uni-koblenz.de), phone: 0261 287 2311).

Please send your informative documents **by 30.11.2024**, quoting the **reference number 119/2024**, **exclusively by e-mail in one PDF file** to: [bewerbung-k21@uni-koblenz.de](mailto:bewerbung-k21@uni-koblenz.de).

Please refrain from sending in application photos. We do not send confirmations of receipt. At the end of the procedure, the application documents will be destroyed in compliance with data protection regulations.