



Karlsruhe Institute of Technology

Karlsruhe Institute of Technology
Personalservice (PSE)

Kaiserstraße 12
76131 Karlsruhe

<http://www.pse.kit.edu>

**PhD candidates (f/m/d) within the Research Training Group 2561
"MatCom-ComMat: Materials Compounds from Composite Materials
for Applications in Extreme Conditions"**

Job description: The Research Training Group (RTG 2561) MatCom-ComMat funded by the Deutsche Forschungsgemeinschaft (DFG) offers several PhD positions at Karlsruhe Institute of Technology (KIT), Technical University Darmstadt and Dechema Research Institute in Frankfurt. (www.rtg25564.kit.edu)

The scope of the RTG relates to the development, characterization and modelling of novel, revolutionary multi-phase composite systems capable of withstanding temperatures substantially beyond 1300 °C and harsh environmental conditions (e.g., oxidative, corrosive, erosive atmospheres) as far as mechanical behavior, environmental resistance and durability are concerned. This is achieved by a materials combination consisting of metallic/intermetallic alloys based on refractory metal silicide alloys as substrates and polymer-derived ceramic nanocomposites based on Si(Metal)CON.

Up to twelve doctoral researchers will be supervised/trained by teams of highly qualified scientists/professors amongst the three institutions and will be able to take advantage of their complementary expertise by visiting the partner institutions for extended periods. Likewise, stays abroad at internationally known academic institutions are encouraged.

Qualification: Successful candidates should have completed their master studies in the fields of mechanical or chemical engineering, materials science or physics/chemistry as well as in related fields.

We offer: We offer an attractive and modern workplace with access to excellent facilities diverse and responsible tasks, a wide scope of advanced training options, supplementary pension with the VBL (Pension Authority for Employees in the Public Service Sector), flexible working time models, a job ticket (BW) allowance, and a cafeteria/canteen.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L.

Institute: Institute for Applied Materials IAM-WK, for the DFG project "MatCom-ComMat: Materials Compounds from Composite Materials for Applications in Extreme Conditions"

Contract duration: limited to 36 months

Starting date: April 1st 2020

Application up to: March 6th 2020

Contact person in line-management:

For further information, please contact Prof. Dr.-Ing. Martin Heilmaier, email: martin.heilmaier@kit.edu

Application:

Please send your complete professional CV, including your educational background and experience as well as a brief statement of your research interests until **March 6th 2020** to the speaker of the GRK, Prof. Dr.-Ing. Martin Heilmaier, email: martin.heilmaier@kit.edu.

We prefer to balance the number of female and male employees. Therefore, we kindly ask female applicants to apply for this job.

If qualified, handicapped applicants will be preferred.

Karlsruhe Institute of
Technology
Personalservice

KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.