Faculty of Mechanical Science and Engineering

At the Institute of Aerospace Engineering the Chair of Space Systems offers, subject to resources being available, a position as

Research Associate

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting at 01.05.2020. The position is limited until 31.10.2021. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification.

Tasks:
- Design of chemical space propulsion components for additive manufacturing
- Thermomechnical numerical analyses
- Detailed computational fluid dynamics analyses
- Assessment of design approaches and derivation of development plans
- Experimental testing of propulsion components in hot-fire tests
- Conducting technology surveys
- Supervision of student theses
- Scientific publications and participation in scientific conferences, symposia, workshops

Requirements:
- Good or excellent university degree in mechanical engineering, aerospace engineering or similar
- Experience in computational fluid dynamics
- Knowledge of chemical space propulsion systems and propellant combinations
- Experience in additive manufacturing desired
- Experience in laboratory work including the design, conduction and evaluation of experiments
- Ability to work highly efficient and self-reliantly
- Proven ability to work in a team, as well as independently
- Ability to solve complex problems with adherence of strict deadlines
- Excellent communication skills (both written and spoken)
- Innovative and analytical thinking, high commitment and scientific curiosity

We are searching for a top-class and pro-active scientist, who seeks an academia profile. Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents by 26.03.2020 (stamped arrival date of the university central mail service applies) by mail to: TU Dresden, Fakultät Maschinenwesen, Institut für Luft- und Raumfahrttechnik, Professur für Raumfahrtsysteme, Herrn Prof. Dr. Martin Tajmar, Helmholtzstr. 10, 01069 Dresden or preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf-document to raumfahrtsysteme@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis