

**At the Research center SPACE, we are looking for
Research Associate (m/f/d)**

**to participate in the cutting-edge research project SeRANIS at the
Bundeswehr Centre for Digitization and Technology Research (DTEC.Bw)**

(Remuneration according to E 13 TVöD – German wage agreement for public service)

limited till 31.12.2024 in full time employment.

The Universität der Bundeswehr Munich is firmly anchored in the national and international research landscape. As a campus university with excellent infrastructure, it offers the best conditions for high-quality teaching and research.

The DTEC.Bw will be established as a scientific centre at the Universität der Bundeswehr München, supported by both Bundeswehr universities (UniBw). It will carry out selected projects of innovative and interdisciplinary top-level research in the fields of digitization and related key and future technologies.

As currently the largest top-level research project SeRANIS (Seamless Radio Access Networks for Internet of Space) will involve more than 50 scientists working on technologies for the next generation of mobile communications (6G) and innovations in satellite technology.

One key topic is the implementation of camera in the optical and infrared spectral range on the experimental satellite platform and evaluation of the acquired sensor data by means of modern digital processes including machine learning methods.

Your Responsibilities:

- Participation in the development and implementation of small satellite missions
- Support for the development of experiments and integration of small satellites
- Cooperation in project implementation from the planning phase to the finished flight model
- Test, qualification and demonstration of the developed prototypes in the laboratory
- Evaluation, development and implementation of AI-based algorithms to support the evaluation of cameras in the optical and infrared spectral range

Your Skills and Experiences:

- Master's degree in a relevant field (e.g. aerospace engineering, electrical engineering, mechanical engineering, mathematics, physics or similar)
- Advanced experience in relevant topics e.g. simulation, software development, electronics, control engineering, mechanisms & structures, mission & system design, thermal regulation and so on.
- Programming skills in at least one of the following languages: Python, C++ or similar
- Experience in the field of image processing, on-board data processing and measurement technology is a plus
- Experience with Artificial Intelligence (especially Machine Learning and Neural Networks) and data science are plus
- Knowledge in the area of space application is a plus
- Fluent in English for a good cooperation in an international environment, German is a plus

What we offer:

- Versatile and praxis-oriented, scientific projects within an excellent research infrastructure
- A high-level of creative research freedom in a dynamic and international team
- Opportunity to enroll in a PhD program and entrepreneurship prospects through the DTEC.Bw start-up incubator

UniBw Munich is striving to increase the proportion of female academics and employees; applications from women are expressly welcomed. Persons with a handicap are given special consideration if they are equally qualified.

Did we raise your interest?

Please send us your application documents (cover letter, curriculum vitae, references, certificates and transcripts) in PDF format until **30.11.2020** by e-mail to: office.sp@unibw.de and raumfahrt@unibw.de

By submitting your application, you agree that your personal data may be stored, processed and forwarded to the offices involved in the application process for the purposes of the application. Further details on our data protection policy can be found under the following link (German only): [Data protection policy](#).

We are looking forward to your application!