

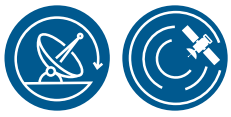
Munich Center for  
Space Communications

der Bundeswehr  
*Universität*  **München**

# Create the Future of Satellite and Space Communications Technology!

**Postdoc for „SPACE-based Joint Communication and Sensing“**

The University of the Bundeswehr Munich is a leading research institution in the field of air and space research. With the Munich Center for Space Communications, the University hosts Germany's largest and most versatile experimental satellite ground station and Over-The-Air test facility for next-generation SATCOM technologies. As such, the university offers unparalleled working conditions for outstanding research in the exciting and rapidly growing market of space data highways and the Internet of Space.



We are currently looking for a **Postdoc for the topic „SPACE based Joint Communication and Sensing“** at the Faculty of Electrical Engineering and Information Technology at the Institute of Communication Systems and High Frequency Technology (remuneration according to salary group E14 TVöD) full-time, initially limited to 4 years, at the University of the Bundeswehr Munich in Neubiberg.

The Institute of Communication Systems and High Frequency Technology is home to four professorships in the research field of information technologies in the Faculty of Electrical Engineering and Information Technology. It is also a central component of the cross-faculty research centre SPACE (FZ SPACE), the largest university research centre for secure space technologies in Germany with more than 100 researchers. The advertised professorship is assigned to the SpaceCom Labs at FZ SPACE, where more than 30 researchers conduct research in the fields of communication networks, information transmission and signal processing in state-of-the-art laboratories, a dedicated 5G campus network and a unique experimental ground station for satellite applications. Central applications are satellite communication with geostationary satellites as well as small satellites and satellite mega-constellations in the context of non-terrestrial networks (NTN) for 6th generation mobile communications and for the Internet of Things (IoT).

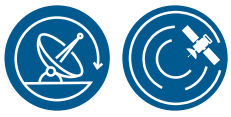
You can also find more information about the institute under <http://www.unibw.de/satcom>. The research centre is presented under <https://www.unibw.de/space-en>.

#### Your tasks:

- Independent conception, development, management and organisation of a research group in the field of „SPACE based Joint Communication and Sensing“ in an existing, highly professional research environment with access to the necessary resources (provision of two fully financed doctoral positions as start-up funding, access to IT and laboratories)
- Acquisition and management of further third-party funded projects from industry and competitive research funding
- Incorporating research results into teaching
- Publication in top journals and clear presence at IEEE flagship conferences
- Participation in the SeRANIS lighthouse project, which is setting up a space laboratory with several satellites with 55 million euros in individual funding and complements the existing 6G research hubs in Germany

#### Qualification requirements:

- Degree in electrical engineering, physics, applied mathematics, computer science or a similar field
- PhD in electrical engineering specialising in communications engineering or related fields
- Proven research experience and strength in IT, communication technology and satellite communication systems
- Outstanding scientific track record
- Proficiency in the programming languages Matlab, Python, TensorFlow, Pytorch preferable.



#### What we expect:

- Leadership skills and a personal sense of responsibility for the work of the project team
- Independence, commitment, confident demeanour and ability to work in a team
- Experience with third-party funded projects (preferably international)
- Very good knowledge of English
- Equal opportunities skills and a sense of responsibility with regard to working in an international research group with more than 10 nationalities

#### What we offer:

- A full-time job at E14 TVöD for four years with the possibility of promotion to E15 TVöD after two years for outstanding performance
- Ideal conditions to prepare for a professorship
- Mobile working / offer of teleworking is possible after consultation with the institute management.
- You will work for a recognised and family-friendly employer in secure economic financial circumstances.
- A campus university with a very good infrastructure, in-house crèche and kindergarten (parents' initiative), a family service centre with advice and support for university members to help reconcile family, care and work life
- Further training opportunities
- Extensive sports programs
- You have the opportunity to take part in company health promotion programs.

The Bundeswehr promotes professional equality between women and men and therefore particularly welcomes applications from women. In accordance with the German Social Security Code IX and the Disability Equality Act, we expressly welcome applications from severely disabled persons; individual consideration will be given with regard to the fulfilment of the application requirements. The Bundeswehr supports the objectives of the National Integration Plan and welcomes applications from people with a migration background.

#### Have we aroused your interest?

Then please send your application with the usual documents (cover letter, CV, certificates) by **15.03.2024** in pdf format by e-mail to:

[jobs.sp@unibw.de](mailto:jobs.sp@unibw.de)

#### Also required:

- If your application documents are in a foreign language, a German or English translation must be enclosed.
- In the case of foreign educational qualifications, proof of recognition in Germany must be enclosed.

By submitting your application, you agree that your personal data will be stored, processed, and forwarded to the organizations involved in the application process for the purposes of the application. You can find more information on data protection at the following link: <https://www.unibw.de/home/footer/datenschutzerklaerung>

**We look forward to receiving your application!**