At the **Institute for Space Technology & Space Applications**, Faculty of Aerospace Engineering, a limited-term, full-time position as

Research Assistant

(pay-group 13 TVöD)

is open.

We work in various fields of space technology with a focus on highly autonomous operation and autonomous landing of spacecraft, formation flight, satellite technology and system design as well as execution and evaluation of experiments to characterize the mass, gravitational field and atmosphere of planets and other celestial bodies. As part of our research work, we are actively involved in the missions MarsExpress, VenusExpress, Rosetta, JUICE and New Horizon of ESA and NASA.

To expand our institute, in particular for the research on **autonomous systems and application of artificial intelligence methods on satellites and space probes**, we are looking for a research assistant starting from **1st of June 2019**.

Tasks:
In our team, you will be the interface between the methods of artificial intelligence (AI), machine learning and autonomy and their application to the satellites and space probes we are designing (e.g. error management, autonomous landing, formation flight, sensor fusion, scientific data evaluation). This includes among others:

- Identification, investigation and evaluation of suitable algorithms and methods.

- Extension of existing simulation and analysis software with the methods of AI and autonomy.

- Support in the administration and, if necessary, extension of the existing IT infrastructure for AI tasks (NVIDIA GPUs, Processing Server).

- Support in teaching and practical training in space technology as well as general concerns of the institute

Qualification:
An above-average university degree in computer science, mathematics, physics, engineering or a comparable field of study.

Knowledge and main interests in the areas of machine learning, autonomous systems, artificial intelligence, as well as programming skills (e.g. CUDA, Tensorflow, Kera; C/C++, Fortran, Python etc.) are expected or the willingness to familiarize oneself with these topics.

Suitable candidates have the opportunity to **graduate as Dr.-Ing.** within the scope of their work.

The University endeavors to increase the proportion of women in research and teaching and therefore expressly invites them to apply. Disabled persons with equal qualifications will be given preferential consideration.

Please send your application with the usual documents (preferably electronically) by **8. April 2019** at the latest:

Univ.-Prof. Dr. R. Förstner, Institut für Raumfahrttechnik und Weltraumnutzung LRT 9.1, Fakultät für Luft- und Raumfahrttechnik, Universität der Bundeswehr München, Werner-Heisenberg-Weg 39, 85577 Neubiberg, e-mail: raumfahrt@unibw.de