



Linder Höhe
D-51147 Köln
Telephone: +49 (0)2203 601-0
Internet: <https://www.dlr.de>

Kennedyallee 50
D-53175 Bonn
Telephone: +49 (0)228 882-0
E-mail: dlr-daad-program@daad.de
Internet: <https://www.daad.de/dlr>

DLR – DAAD Fellowships

Fellowship No. 591

Research Area :	Space
Research Topic:	Hardware and algorithms for flexible multi-beam steering in satellite communications
DLR Institute:	Institute of Communications and Navigation, DLR Oberpfaffenhofen, Germany
Position:	Doctoral Fellow
Openings:	1
Job Specification:	<p>In the near future, several mega constellations like Starlink and Very High Throughput Satellites (VHTS) will deliver extremely high data rates to users at almost any location worldwide. Flexibly steerable antenna systems with high gain and multiple beams for satellite and user terminals are crucial to realize this vision of global connectivity. Innovative analogue and digital signal processing is the key for such antenna systems to achieve their top performance.</p> <p>In this job, you will focus on the RF and IF hardware of the antenna system. You will identify and analyse analogue, digital and/or hybrid beamforming techniques to work with multibeam antennas.</p> <p>Within our team of antenna and RF experts, you will use DLR's simulation, production and measurement capabilities, to design, build and measure system prototypes up to Technology Readiness Level (TRL) 5. Additionally, you will generate research impact by presenting your work at international conferences and in journal publications.</p>
Required Qualification:	Master degree in Electrical Engineering, Telecommunications, Information Technology, Physics or similar; high motivation and eagerness to learn.
Advantageous Skills:	Simulation of RF communication systems; experience in satcom, RF hardware design and measurement.

English competence: See requirements on www.daad.de/dlr

Earliest Start Date: As soon as possible

Application Deadline: Until position filled

Further Information: <http://www.dlr.de>
<http://www.daad.de/dlr>

More information may be obtained by contacting:

Dr. Ing. Andreas Winterstein (Andreas.Winterstein@dlr.de)

Thank you for your attention!
We look forward to receiving your application!