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DLR – DAAD – Fellowships

Fellowship no. 369

- Research Area :** Space
- Research Topic:** **Atmospheric Measurement Devices for Optical LEO Networks**
- DLR Institute:** Institute of Communications and Navigation, DLR Oberpfaffenhofen
- Position:** Doctoral Fellow
- Openings:** 1
- Job Specification:** The Optical Communications Group of the Institute for Communications and Navigation (part of the German Aerospace Center) investigates new technologies to increase the data throughput between Satellites and Ground Stations by employing free-space optical (FSO) links. Earth' atmosphere heavily influences the statistics of the transmission channel for such laser signals, both in amplitude and phase. Frequent optical measurements of passive as well as cooperative celestial objects (satellites, stars) enables better prediction and compensation of adverse atmospheric effects, however requiring an according economic and robust infrastructure.
This fellowship shall investigate measurement options based on existing hardware infrastructure and own developments and execute and evaluate measurements with cooperative space-based targets.
- Required Qualification:** MS Degree in Electrical Engineering / Information Technology / Astronomy / Physics,
Matlab and C programming skills
- Advantageous Skills:** Experience with telescopes or similar optical hardware, experience with camera-based measurement devices
- English competence:** English fluent; see requirements on www.daad.de/dlr

Earliest Start Date: March 2019

Application Deadline: Until position filled

Further Information: <http://www.dlr.de>
<http://www.daad.de/dlr>
Please check directly with DAAD if you qualify, before applying.
Existing contact to potential university Ph.D. supervisor is advantageous.