



**Deutsches Zentrum
für Luft- und Raumfahrt**
German Aerospace Center

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



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

Kennedyallee 50 – D-53175 Bonn
Telephone: +49 (0)228 882-0
Telefax: +49 (0)228 882 448
E-mail: dlr-daad-program@daad.de
Internet: <http://www.daad.de/dlr>

DLR – DAAD Fellowships

Fellowship No. 375

Research Area : Space

Research Topic: Sea Ice characterisation with TanDEM-X

DLR Institute: Microwaves and Radar Institute, DLR Oberpfaffenhofen

Position: Postdoctoral Fellow

Openings: 1

Job Specification: Quantitative parameters characterizing the sea ice surface topography are needed in geophysical investigations such as studies on atmosphere–ice interactions or sea ice mechanics. TanDEM-X is since 2010 acquiring regional data over different sea ice regimes. In addition a coordinated campaign with ground measured data over sea ice in the region of Antarctica has been conducted in a bistatic interferometric constellation. All these data can be analysed in terms of a better understanding of the sea ice property. Not only TanDEM-X data analysis but also a proper modelling of sea ice for the comparison of real data are needed and will be conducted in the frame of this study.

Required Qualification: Master Degree in Electrical or Telecommunication Engineering, Computer Science, Mathematics, Physics, Atmospheric Sciences.

- Proficient on multiple platforms (Linux, Mac, Windows) with programs including Matlab, ArcMap, QGIS, GAMMA, SNAP, NCL, ENVI, GDAL, Java, Fortran, shell scripting, and MPI). Experience using super computers, PGI, and Pathscale compilers
- Experiences in inverse modelling and with Earth system models

Advantageous Skills: Field work experiences

English competence: Good knowledge of English (speaking and writing, see requirements on www.daad.de/dlr)

Earliest Start Date: March 1st, 2019

Application Deadline: Until position filled

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