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**UNIVERSITÄT
BERN**

Astronomisches Institut, Sidlerstrasse 5, CH-3012 Bern

Philosophisch-
naturwissenschaftliche Fakultät

Astronomisches Institut

Bern, 03. February 2017

Open Position at the Astronomical Institute of the University of Bern

The Satellite Geodesy research group of the Astronomical Institute of the University of Bern (AIUB) is offering a position for a

PhD CANDIDATE

on

GNSS SATELLITE ORBIT MODELLING.

The thesis shall improve the understanding of orbit modelling for all Global Navigation Satellite Systems (GNSS) in the frame of the multi-GNSS extension (MGEX) of the International GNSS Service (IGS). Based on the MGEX solution from CODE (Center for Orbit Determination in Europe, hosted at AIUB) new strategies for orbit parametrizations, e.g. for solar radiation pressure modelling, shall be implemented and tested. The orbits for GPS, GLONASS, Galileo, BeiDou, and QZSS shall be investigated, modelled, and parametrized in a fully consistent way. The project shall help to understand how potential deficiencies in the orbit modelling map into GNSS-derived parameters relevant for geodesy and geodynamics.

Education:

The candidate is expected to have successfully completed the master thesis (diploma / "Lizentiat") in astronomy, geodesy, physics, or a related topic. Experience in GNSS data processing or in using the Bernese GNSS Software package, and in computer science (coding in Fortran90, C++, or perl) are not a requirement, but an advantage. The candidate should be able to speak and write English fluently.

The candidate should start working in Bern as soon as possible.

The project is scheduled for three years. The salary follows the guidelines of the University of Bern and depends on the qualification of the successful candidate.

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Application:

Applications (including CV, university diploma copies, record of study, possible references) should be received as soon as possible but no later than March 31, 2017 at the following address:

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Informal enquiries may be obtained at the above address as well.

The University of Bern is an equal opportunity employer and encourages in particular women to apply for open positions.