UNIVERSITÄT
BERN

Astronomisches Institut, Sidlerstrasse 5, CH-3012 Bern

Philosophisch-
naturwissenschaftliche Fakultät

Astronomisches Institut

Bern, 05. April 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) offers the position of a

RESEARCH ASSISTANT.

The focus of the research activities will be in the field of

SLR DATA ANALYSIS.

Current activities in this area at AIUB cover a wide field from the combination of measurements from Satellite Laser Ranging (SLR) and Global Navigation Satellite Systems (GNSS) on the level of observation equations to the analysis of observations to low geodetic SLR satellites, e.g., to determine the low-degree terms of the Earth's gravity field. An extension of the activities to the combined analysis of SLR- and GNSS-data from low Earth orbiting (LEO) satellites is for instance also possible. Depending on the research interests and experience of the candidate the research area will be defined from this wide spectrum of potential topics.

The SLR analysis at AIUB is based on the standard procedures as defined by the ILRS (International Laser Ranging Service). A close cooperation with the ILRS analysis center at BKG (Federal Agency for Cartography and Geodesy, Frankfurt am Main, Germany) in the frame of the "Center for Orbit Determination in Europe" (CODE) is a core element. Changes and developments in the ILRS defined analysis scheme shall be implemented in these procedures and coordinated with the BKG.

The analysis of SLR measurements at AIUB is carried out with the Bernese GNSS Software package that is also used for the GNSS-related activities in the group. The SLR-related activities are an integrated part of the research activities of the satellite geodesy group. A close relation to the other fields of the group in the area of GNSS data analysis, orbit determination for LEOs as well gravity field recovery is native.

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Education:

The candidate is expected to have successfully completed the master thesis (diploma / "Lizentiat") in astronomy, geodesy, physics, or a related topic. Experience in SLR/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 on July 01, 2017 or by agreement.

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

Application:

Applications (including CV, university diploma copies, possible references) should be received as soon as possible but no later than May 22, 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.