

The **University of Bremen**, a mid-sized university with approximately 250 professorships and 19,000 students, offers a broad range of disciplines and competes internationally in top-level research. With its ambitious institutional strategy, the university was successful in the national Excellence Initiative as one of only eleven universities in Germany.

Cooperative Junior Research Groups funded by the Excellence Initiative strengthen the university's capacity for innovation. They are established in fields of close collaboration with our distinguished research partners and thereby offer rewarding research opportunities and career prospects for excellent junior researchers.

Candidates having an excellent doctorate and the ability to successfully design, build and lead a cutting-edge research project are encouraged to apply. Group leaders will receive a competitive salary and a generous budget for research assistants and other costs directly incurred by the project. Teaching (in English or German) is required for two hours per week during semester, starting from the beginning of the second year.

The University of Bremen is offering – conditional to the release of budgetary funds –
the following position for a

Junior Research Group Leader (Tenure Track)

“Remote Sensing of Sea Ice”

Salary group E14/15

(in the first instance for three years with the perspective after a tenure track evaluation to become a permanent position at the Institute of Environmental Physics - the tenure track option)

reference number: **A 81 /14**

We are seeking an outstanding young scientist, having an excellent doctorate and publication record, to lead a new cooperative research group. During the past 25 years, the Institute of Environmental Physics (<http://www.iup.uni-bremen.de>) in the faculty of Physics and Engineering of the University of Bremen, IUP-UB, has established itself as an internationally recognized leader in the remote sensing of the Polar Regions. In addition, a successful research cluster of scientists in cryospheric science, comprising researchers from the IUP-UB and the Climate Sciences Division of the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, AWI (<http://www.awi.de>), facilitates the research.

Current research focusses on the use of measurements from instrumentation aboard satellite platforms to retrieve key atmospheric constituents (ozone, water vapour, aerosol polar stratospheric cloud and cloud) and surface parameters (e.g. sea ice and snow cover, thickness and albedo). An important objective is to improve our understanding of the

fundamental processes taking place in and above the cryosphere and the assessment of the impact of global climate change at high latitudes.

The new junior cooperative research group will complement and enhance the existing competencies in sea ice remote sensing at the IUP-UB and land ice at AWI. Potential foci for the new research group embrace issues related to the quantification of radiative and biological processes in sea ice and snow, and the roles of the ocean and atmosphere. The overarching objectives, which are expected to evolve as a result of the collaboration with the AWI and IUP-UB researchers, are to test our current understanding of atmospheric and ocean circulation in climate models and to assess the accuracy of the numerical prediction of weather and ice at high latitudes.

For further inquiries please contact Prof. Justus Notholt (notholt@uni-bremen.de) phone +49-421-218-62190 or Prof. John P. Burrows (burrows@iup.physik.uni-bremen.de), phone +49-421-218-62100).

The applicant is expected to cooperate with other research areas within and outside the University of Bremen and to acquire additional third-party funds to enhance the research program.

Selection procedures and implementation of the junior research groups, which have an envisaged duration of five years, are similar to the model used to appoint leaders of Emmy Noether junior research groups, funded by the German Research Foundation (DFG).

Following a successful evaluation, after approximately three years the holder of this position has the opportunity to become a permanent member of staff at the IUP (tenure track option), and being promoted to be group leader of the sea-ice remote sensing group.

Requirements for the position are as follows: excellent doctorate credentials, publications in peer-reviewed international journals or other comparable publications. Candidates should ideally have gained some of their expertise while working abroad for several months during the doctoral or postdoctoral research. Applications may only be submitted by candidates who have completed their doctorate within the last five years, excluding take for paternity or maternity leave. Applicants having a doctorate from the University of Bremen, are required to have at least two years of postdoctoral research at another institution.

To achieve their research goals, Junior research group leaders are provided with up to 2.5 research positions and will receive funds for equipment, consumables and student assistants.

Please send your application by email. Applications must include:

- a CV
- a short statement of research achievements
- a five-year project plan. The project plan should address the following points: State of the art, own preliminary work, objectives, work program (including time table and cost projection) and project requirements (maximum 10 pages).
- three of your key publications as pdf files
- contact details of at least three referees

The University of Bremen has received a number of awards for its gender and diversity policies and is particularly aiming to increase the number of female researchers. Applications

from female candidates, international applications and applications of academics with a migration background are explicitly welcome.

Disabled persons with the same professional and personal qualifications will be given preference.

Please send your application (with reference number **A 81/14**) not later than **29.05.2014** or until the position will be filled to **a81-14@fb1.uni-bremen.de** or Professor Justus Notholt, Institute of Environmental Physics and Remote Sensing IUP/IFE,

University of Bremen - FB1, P.O. Box 330440, 28334 Bremen, Germany

[.http://www.uni-bremen.de/en/exzellent.html](http://www.uni-bremen.de/en/exzellent.html)