

Member of



The climate needs bright minds. The Potsdam Institute for Climate Impact Research (PIK) addresses crucial scientific questions in the fields of global change, climate impacts and sustainable development. It is one of the world's leading research institutions in its field and offers natural and social scientists from around the world an inspiring environment for excellent interdisciplinary research.

For the Research Area Regional Climate Impacts and Adaptation Strategies PIK is offering a

Data Scientist position

starting on **01.01.2019**.

(Position number: **RD2 Data scientist –40-2018**)

We are looking for a person with interest in analysing the risks of climate change and developing an early warning system to predict crop failures, food security or famines in Sub-Saharan Africa using statistical, machine learning methods as well as other quantitative methods for data analyzing. Working together with governments, research institutes and private organizations in Sub-Saharan Africa, we aim to translate research findings into user-oriented climate services and policies that enable end users in partner countries to better adapt to climate change.

The position is **funded for 22 months**. Remuneration is in accordance with German public tariff scheme (**TV-L Brandenburg**), **salary group E 13**. This is a full-time position with a weekly working time of 40 hours per week. The position can be filled on a part-time basis.

Key responsibilities:

- Analysis of the impacts of climate change on different sectors such as agriculture, economy or health using large data sets.
- Improving and applying of climate impact computer simulation models (in particular crop models) with the aim of improving their use for risk assessment, forecasting and impact assessment.
- Development and application of statistical methods to assess and forecast agricultural/ food security/ impacts of climate change
- Creation and maintainness of a software repository of statistical crop models for team work, including version control and a data base (SQL or similar) of subnational yield data with restricted access
- Publication of articles in peer-reviewed journals highlighting results from research projects and presentation of research results at international conferences.
- Contribution to the implementation of project results through close collaboration with other researches at PIK as well as the stakeholders involved.

- Project management, writing of project reports and applying for funding

We further encourage you to pursue your own research interests, which should have a thematic overlap with the above responsibilities.

Requirements:

- You hold a master's degree or a PhD in statistics, mathematics, (bio/geo)-informatics, physics, (agricultural) economics, geography or any other relevant field.
- You have profound expertise in statistics as well as programming skills in R and/or python
- You have knowledge in other programming languages, GIS, remote sensing satellite data, NetCDF file format and relational databases.
- Experience in statistical crop modeling or other statistical models for agricultural or climate impacts is valuable.
- Experience in project management and writing proposals for further funding are valuable.
- You have knowledge or are interested in risk management and transfer solutions (e.g. insurance solutions), agriculture and climate change in tropical regions.
- Work experience in developing countries is valuable and the willingness to travel to these countries is desirable.
- You have excellent communication skills and are fluent in spoken and written English. Knowledge of other languages is an advantage.
- You are able to work independently, goal-oriented and on your own responsibility.

We offer:

- an inspiring, international, and interdisciplinary work environment in one of the world's leading research institutes on climate change
- participation in user driven research projects with international partners
- insights into international projects with stakeholder engagement
- opportunities for cooperation with PIK's national and international network of leading climate and agricultural research institutes
- guidance and supervision in career development
- high-impact of your research through publications in renowned journals and consortia

PIK seeks to increase the share of women in scientific positions and therefore explicitly encourages women to apply. In cases of equal qualification and within the given legal scope, women will be given preference. Applications by persons with a migration background, provided they fulfill the conditions for appointment, are expressly encouraged. Applications of disabled persons with equal qualifications will be regarded favourably. PIK is also encouraging applications by parents returning from parental leave within the availability of financial resources.

Please send your full application **as a single PDF document by Email**, quoting the position number given above and mentioning where you read about the position by **18.11.2018** at the latest to bewerbung@pik-potsdam.de. Application documents should comprise a letter of motivation, a CV, relevant certificates, and a short sample of your work (e.g. term paper, section of your thesis or journal publication (approx. 2-10 pages)). The size of the file should not exceed 15 MB.

For further information or to discuss the position please contact Christoph Gornott at gornott@pik-potsdam.de.

