



Max-Planck-Institut
für Biogeochemie



**Biogeochemical Model-
Data Integration Group**

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The Max Planck Research Group “Biogeochemical Model-Data Integration” at the Max Planck Institute for Biogeochemistry in Jena, Germany, is offering a

2-year post-doc position on thermokarst modelling

The post-doc project is part of the EU FP7 Integrated Project PAGE21 which aims at understanding the evolution of the high-latitude permafrost state and its global effects within the Earth system during the 21st century. The post-doc will contribute to this overarching topic with projecting the effects of thermokarst dynamics on soil carbon dynamics and land-atmosphere exchanges of carbon dioxide, methane, and water until 2300 by using the terrestrial ecosystem model JSBACH which serves as the land component in the Max Planck Earth System Model. For this, JSBACH needs to be enhanced with respect to soil physical and biological processes that represent soil carbon dynamics following subsidence and the resulting hydrological changes. The position needs to be filled as soon as possible. There is a general possibility of extending the contract by another year, also depending on other funding sources.

Candidates with a PhD in any quantitative science (e.g. physics, meteorology, geo-ecology or other geo-science, environmental and natural sciences, applied mathematics or computer science) are eligible for this position, given their strong motivation to complement their past training and to apply their expertise to terrestrial ecosystem modeling and analyses. The project requires advanced practical skills with respect to computer-based data analysis and scientific programming. Salary follows the rules of the German public service or is granted as scholarship on a case basis. The Max Planck Society seeks to increase the number of female scientists and encourages them to apply. Handicapped persons with comparable qualifications receive preferential status.

Please, include in your application your motivation, curriculum vitae, a list of publications/presentations/qualifications, copies of your high-school and academic certificates, and names and contact information of at least two references. Please, also attach the 1-3 most representative and valuable examples of your past scientific work (submitted manuscripts will of course be treated confidentially). Applications should arrive at Christian Beer before 15 March 2012, preferably via e-mail as pdf attachment (cbeer@bgc-jena.mpg.de). Regarding further questions please also contact Christian Beer via email.