

2-years Post-Doc on

“Integration of theory and data for analysing the covariation of the terrestrial carbon and water cycle”

The carbon and water cycle are intimately linked. Various in-situ and space-born observational data streams cover different aspects of the land carbon and water cycle, but integrating them for a comprehensive picture of the global variability of carbon and water fluxes is challenging. This PostDoc project seeks to contribute to the development of a diagnostic carbon and water cycle data assimilation system and the analysis of how the coupled carbon and water cycles respond to climate variability. The PostDoc will work on improving and evaluating semi-empirical process descriptions along with implementing and testing model data integration approaches.

The position will be in the Model Data Integration Group of the Biogeochemical Integration Department at the Max Planck Institute for Biogeochemistry in Jena, Germany (<https://www.bgc-jena.mpg.de/bgi/index.php/Research/GlobalModelling>). The successful applicant will join a young and international team in a vibrant research environment.

We are seeking a highly-motivated and collaborative PostDoc with a PhD in a quantitative science (e.g. geo-ecology, environmental science, biology, applied mathematics, physics, or computer science), experience in ecosystem or hydrological modelling and scientific programming, as well as an interest in applying their expertise to terrestrial ecology and global change research, and numerical modelling.

The conditions of employment, including upgrades and duration follow the rules of the Max Planck Society for the Advancement of Sciences and those of the German civil service. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply. The Max Planck Society is committed to employing more handicapped individuals and especially encourages them to apply.

Please send your inquiries and/or applications including a letter of interest, CV, and the names and contact information of one or two references to Dr. Nuno Carvalhais either via email to ncarval@bgc-jena.mpg.de, or directly to the institute's address Max-Planck-Institut für Biogeochemie, Postfach 10 01 64, 07701 Jena, Germany. The review of applications will begin on the 8th of July 2013 and continue until the position is filled.