International Max Planck Research School for Global Biogeochemical Cycles

The IMPRS-gBGC located in Jena, Germany, offers fellowships to outstanding students interested in research on biogeochemical cycles in the Earth system. The school provides excellent research possibilities for students to obtain a PhD degree in a 3-years graduate program.

The elements key to life such as carbon, oxygen, hydrogen, and nitrogen are continuously exchanged among the land, ocean and atmosphere in what are known as global biogeochemical cycles. Research in the IMPRS-gBGC discovers how these cycles function, how they are interconnected, and how they can change with climate or human activity.

Students participate in ongoing research comprising field observations, method development, experiments, and modeling. Students will also benefit from a three-month external research visit, specialised courses in e.g. statistics, Earth observation, modelling and analytical techniques, as well as in soft skills.

The school is thus an excellent starting platform for a successful career in a field related to global biogeochemical cycles and Earth System Science. Individual PhD projects deal with various aspects of global biogeochemical cycles.

Projects currently open for application:

- **Atmosphere**
  - The carbon cycle of northern Eurasia studied at the Zotino Tall Tower Observatory, central Siberia

- **Biosphere & Ecosystems**
  - Data-driven modeling of global carbon and water cycles
  - Carbon and water relations from ecosystem to global scale
  - Verifying, improving and extending EQ-LDAS radiative-transfer modelling constraints for the application of the Sentinel-1 and -2 RADAR and optical sensors
  - Data-based models to understand biogeochemical cycles: Accounting for temporal autocorrelation

- **Soils, soil microbiology & soil hydrology**
  - Meadow ants as physical ecosystem engineers and switches for biogeochemical heterogeneity

- **Paleoclimate**
  - Transfer of environmental and climatic signals into volcanically influenced lake sediments
  - Timing of long-term carbonate mobilisation in a limestone aquifer, subproject “Hydrogeochemistry”

We accept applications for PhD scholarships until August 05, 2012. Find out more and apply online: [www.imprs-gbgc.de](http://www.imprs-gbgc.de)

Applications for the program are open to well-motivated and highly-qualified students from all countries. A prerequisite is a diploma or master of science degree in geophysical sciences, environmental sciences, biological sciences, physics, chemistry, computer sciences or related fields, including a corresponding thesis. Proficiency in English is required since English is the official language of the program.

Successful applicants are expected to join us in autumn 2012 and will be offered financial support of roughly 1200 Euros/month to cover their basic living expenses. There are no tuition fees. Handicapped persons with comparable qualifications receive preferential status.

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