

**13 Doctoral Stipends, 2 Postdoc Stipends (UNIVERSITÄT BAYREUTH)**  
**Bewerbungsfrist: 15.01.2009**

Complex Terrain and Ecological Heterogeneity (TERRECO)  
Evaluating ecosystem services in mountainous landscapes

The following positions are available within the framework of the German Research Foundation – *DFG - financed International Research Training Group TERRECO*:

13 Doctoral Stipends (beginning on March 1, 2009 for a period of three years)

2 Post-Doc Stipends (beginning on December 1, 2009 for a period of two years)

The research group is a joint activity of the University of Bayreuth, Kangwon National University in Chunchon, Korea, and the Korean Forest Research Institute in Seoul. The goals of the TERRECO-IRTG focus on building a bridge between spatial patterns of ecosystem performance in complex terrain and derived ecosystem services critical for human well being. A coordinated assessment framework will be developed for landscape to regional scale applications to quantify trade-offs, and determine how shifts in climate, land use and social response to global change pressures influence ecosystem services. Within TERRECO, the abiotic and biotic studies of hydrology and water yield, agricultural and forest production, production-related biodiversity, soil processes and water quality in complex terrain are merged. In addition, the socioeconomic background of current land use is analysed within the framework of changing social-ecological systems. On this basis, a number of scenarios shall be identified that describe potential future change. The trade-offs related to more intensive land use with respect to agriculture versus quantity and quality of water obtained from these regions are evaluated, and new tools for understanding and managing such areas will be designed.

Doctoral stipends pay 1000 Euro per month in Bayreuth plus travel costs and a supplemental living cost for months spent in Korea. Details of the project description may be downloaded at <http://www.bayceer.uni-bayreuth.de/terreco>. Themes related to specific stipends and the supervisors of individual research efforts are indicated below.

The TERRECO project is an educational initiative of the UBT BayCEER faculty consortium, Bayreuth Center of Ecology and Environmental Research, and ZENEb, Bayreuth Center for Natural Risks and Development, within the framework of the Bayreuth Graduate School of Natural Sciences and is administered by the Dept. of Plant Ecology (Speaker: Prof. John Tenhunen). Participants will conduct research in both Germany and Korea. A required transdisciplinary study component including lectures, seminars, field exercises, Korean language training, and a summer school will be carried out in both countries.

Applicants will be selected internationally. Application DEADLINE is January 15, 2009. Applicants should send documentation of the following:

1. a copy of a general university entrance qualification (i.e. high school diploma and course transcript),
2. an excellent Bachelor and Master's degree, or Diplom in biology, hydrology, meteorology, environmental physics, environmental informatics, geoecology, landscape ecology, geography, science of forestry or agricultural science or an equivalent degree (include copies of transcripts and degree certificates),
3. applications will be accepted from candidates currently enrolled in the first semester of an MSc program at the University of Bayreuth (FAST-TRACK option of your program), in this case documentation of courses being taken and current performance where possible should be given,
4. a statement in English of personal interest as related to the training program, and
5. a curriculum vitae (i.e., personal data and information on educational history)

To the Speaker of the IRTG: Prof. John Tenhunen, Department of Plant Ecology, University of Bayreuth, 95440 Bayreuth, Germany, Fax: 0049 921 552570, Email: [John.Tenhunen@uni-bayreuth.de](mailto:John.Tenhunen@uni-bayreuth.de)