

## **PhD position in integrated land system science: Global analysis of land use intensity and intensification**



The Institute of Social Ecology, Vienna ([www.aau.at/socec](http://www.aau.at/socec)) at the Alpen-Adria-Universität Klagenfurt – Wien – Graz, invites applications for a PhD position in integrated land system science.

The PhD position will be dedicated towards the development, collation, consistent integration, and systematic analysis of spatially explicit data on land management and land use intensity with global coverage.

The PhD project will be developed in the context of the ERC-funded START Project LUISE – ‘An integrated socioecological approach to land-use intensity: Analyzing and mapping biophysical stocks/flows and their socioeconomic drivers.’ The overall goals of LUISE include the conceptualization and quantification of land use intensity as well as the development of an improved causal understanding of land intensification. It applies and significantly extends existing methods of material and energy flow analysis (MEFA) and aims to study the full cycle of land intensification. Socioeconomic inputs to ecosystems, structural changes within ecosystems, changes in outputs of ecosystems to society, and the underlying socioeconomic constraints, feedbacks, and thresholds will be analysed.

We seek a candidate with an above-average MSC degree (or equivalent) in Ecology, Geography, Soil Science, Agricultural Economics, Macro-Economics, Sociology, or related fields and specializations or trainings in one of the following fields: Environmental Research, Sustainability Science, Ecological Economics, Resource Economics, Industrial Ecology, and Global Environmental Change.

We expect a strong interest in land-system science. Prior research experience in land-use science and spatial analysis is an asset. GIS expertise is favourable but not a prerequisite. However, strong GIS skills and expertise in spatial analysis will have to be developed by the successful applicant; i.e. a disposition to acquire these essential skills is mandatory. The successful candidate will be a motivated, enthusiastic and independent researcher with an affinity to interdisciplinary research settings and team work, good communication skills, excellent research and publication skills, proven by past accomplishments.

Applications and inquiries should be sent to [karlheinz.erb@aau.at](mailto:karlheinz.erb@aau.at) and [veronika.gaube@aau.at](mailto:veronika.gaube@aau.at). Applications should include a curriculum vitae, statement of research interests and expertise, and names, addresses, phone numbers, and email addresses of at least two references. The 36 month position is available from now on and will remain open until filled. Salary/working conditions follow the guidelines of the Doctoral School at the Institute of Social Ecology.