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The **Forest Ecology Group** at **ETH Zurich** is a dynamic interdisciplinary research team that examines both theoretical and applied questions in forest ecology using a combination of empirical and modeling techniques. The overarching aim of the group is to further our understanding of the structure and function of forest ecosystems, with a particular focus on mountain areas such as the European Alps. We offer world-class facilities in a relaxing work atmosphere with lots of opportunities for collaboration both within and beyond our group. We seek to appoint per 1 May 2018 (initial contract for one year; an extension by at least another year is foreseen) or by mutual agreement a

Postdoctoral Research Fellow in Forest Modeling

We have recently upgraded the forest stand model ForClim for considerably enhanced local accuracy (e.g. in the context of the ISI-MIP effort ForMIP) while at the same time increasing the realism of the model formulations from an ecological point of view.

Job description: The Research Fellow will work on improving the forest model, emphasizing (1) the further refinement of the model if corresponding needs become visible in an ongoing project (PhD study that will be finished in Fall 2018); (2) the improvement of the simulation of management regimes for enhancing their realism and accuracy; and (3) the use of the model for predicting bundles of ecosystem services under changing climatic conditions and changing management regimes. The job will require interactions with other researchers in the group who focus on either dynamic modeling or empirical data analysis, including the vast amount of data available in the Swiss Forest Reserve network (ca. 200'000 individually tagged trees that are inventoried typically since >30 yrs). Also, collaborations with other partners in Switzerland, in Europe, and worldwide are possible. The acquisition of extramural research money for a PhD project and the co-supervision of 1-2 PhD students are also part of the experience of this position.

The successful candidate should have a PhD in a suitable field such as forest sciences or ecological modeling, and should have in-depth experience with dynamic modeling techniques and computer programming, including familiarity with object-oriented languages such as C# or C++. Experience with forest stand models, knowledge of R or similar data/statistical languages and familiarity with European forest ecosystems would be an asset.

For further information contact the group leader, Prof. Harald Bugmann, by e-mail ([harald.bugmann\[at\]jusys.ethz.ch](mailto:harald.bugmann@jusys.ethz.ch)) or visit our website (<http://www.fe.ethz.ch>).