



Institut für Waldwachstum, Tennenbacherstr. 4, D-79106 Freiburg



The Institute for Forest Growth (IWW) of the University Freiburg offers a **Ph.D. position** (60% TV-L salary) in the research topic **wood density analysis and carbon sequestration of Chinese tree species**

Background

From the 15th of March 2012 the German Ministry of Science and Education (BMBF) will fund for 3 years the joint research project **Lin²Value**, which deals with new technologies in context of sustainable and multipurpose management of Chinese land use systems. In the working package **Quality analysis of woody biomass** wood density will be used as a key parameter for both, material properties and energy related characteristics and to assess above ground carbon sequestration potentials. Based on the correlations between wood density and wood parameters and their impact on wood utilization, alternative utilization potentials could be distinguished at the beginning of the wood-supply-chain.

Your tasks

In close cooperation with the working package **Terrestrial laser scanning and biomass assessment** an innovative and efficient method to assess biomass and carbon sequestration on stand level is expected to be developed. For this purpose wood samples of selected Chinese tree species will be collected in the field and afterwards measured with **HF Densitometry** in the laboratory of the **Institute for Forest Growth** in Germany. Together with **HF densitometry** measurements, mechanical and chemical analysis will be carried out in cooperation with the **Institute of Forest Utilization and Work Science** of the University Freiburg. Based on these studies, wood quality as well as the amount of sequestered carbon is assessed as a base of optimal use of forest resources.

Your profile

You have a Master degree in forest science or related research disciplines. You show pronounced interest and experience in scientific work and methodology, statistical data analysis as well as in publishing articles in scientific journals. It is expected that your work in the framework of this project will include the formulation and submission of a cumulative Ph.D. thesis. Besides fluent English language and the readiness for comprehensive study trips, you should also show a high degree of independence, organizational talent, teamwork capacity and poise.

The Ph.D. position is limited in time until 15th of March 2015. The University Freiburg aims to increase the proportion of female employees and explicitly requests qualified women to apply for this position. Please apply until the **15th of March** via email with the common application documents to:

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