



Brussel, 3-11-2008

PhD position in Hyperspectral Remote Sensing: Water and Environment

At the Vrije Universiteit Brussel an interdisciplinary team is formed for research on hyperspectral remote sensing. Groups involved are Dept. of Hydrology and Hydraulic Eng. (Prof. O. Batelaan), Dept. of Geography/Cartography and GIS (Prof. F. Canters / Dr. J. Cheung-Wai Chan), Dept. Electronics & Informatics (Prof. H. Sahli / Dr. I. Vanhamel) and Plant Biology and Nature Management (Prof. L. Triest). From the 1st of January a four year project will start on the development of hyperspectral RS techniques for improving environmental and water management. The project will be strongly focused on water (quantity and quality) and urban land-cover aspects of the Woluwe basin in the Brussels Capital Region. The basin is closely located to the university and should become a dedicated field laboratory. Foreseen work packages are 1: Data acquisition and collection of ground truth; 2: Land-cover mapping in the urban fringe; 3: Improving hydrological modeling by hyperspectral RS data assimilation; 4: Remotely sensed characterization of aquatic turbidity and vegetation.

We are looking for a PhD researcher for four years (start 1/1/2009) who will be able, within the above described project, to develop physical hyperspectral remote sensing inversion techniques to derive environmental variables and combine it with environmental modelling. Knowledge of aquatic systems would be a benefit. The candidate should have a masters degree in (Bioscience-)engineering or sciences. Knowledge and experience in hyperspectral remote sensing is a plus. An attitude towards research, independence, initiative, and good oral and written reporting is essential. Considering that the project aims at stimulating cooperation between the different groups involved, good communication skills are needed. The selected PhD candidate will work in team with another PhD on the same project.

We offer an attractive interdisciplinary research environment, possibilities for participation in conferences, workshops and field experiments. The PhD candidate will be paid with a scholarship equivalent to IWT scholarships. If you are interested send your CV and letter of motivation before December 1, 2008 to batelaan@vub.ac.be. For more information contact O. Batelaan, F. Canters (fcanters@vub.ac.be), H. Sahli (hsahli@etro.vub.ac.be) or L. Triest (ltriest@vub.ac.be).