

## NOTICE OF VACANCY

### POSTDOCTORAL RESEARCHER

#### DEVELOPMENT OF THEMATIC SPATIAL DATABASES FOR SOIL WATER MODELING ON CATCHMENT TO CONTINENTAL SCALES USING REMOTE SENSING DATA, CLIMATE AND SOIL SURVEY INFORMATION

1. - Employer : University of Pannonia, Georgikon Faculty  
- Department: Department of Plant Production and Soil Science  
- Place: Keszthely, Hungary

- Suggested taking up duty: 1<sup>st</sup> October 2015

Please note that the employment contract will be governed by Hungarian Employment law.

The appointment is foreseen for a **fixed term from 1st October 2015 to 31st May 2018**. Planned date for decision is 30st September 2015.

**Submission deadline is 24 June 2015.**

#### 2. Main areas of responsibility :

Changes in environmental conditions e.g. climate change, effect the capacity of soils to provide various services to ecological and social systems. Soil water is one of the most critical components in the water cycle. The consistency of approaches between applications of soil and climate models on different scales can provide background to develop soil and water utilization and conservation strategies. In order to have reliable and harmonized soil quality information on different scales, research based on remote sensing information, climate and soil data need to be carried out.

Within the Georgikon Faculty of the University of Pannonia, the Department of Plant Production and Soil Science carries out scientific work related to soil functions assessment.

The post-doctoral researcher will provide scientific support within the frame of the iSQAPER (*Interactive Soil Quality Assessment in Europe and China for Agricultural Productivity and Environmental Resilience*) Horizon2020 project carried out in collaboration with European and Chinese research centers aiming the generation of data and knowledge on pedoclimatic zones of Europe and China to provide input on soil quality characterization at catchment to continental scales. The selected candidate should perform analysis of remotely sensed vegetation indicators and data from the SMAP mission together with soil and climate datasets to support the development of multiscale thematic soil quality databases.

### **3. Main qualifications :**

The ideal candidate should have a university degree in soil science, agronomy, environmental sciences or related natural science, a PhD degree in remote sensing and proven experience with geostatistical analysis of large datasets.

Demonstrated knowledge of spatial soil databases management, and numerical modelling is an advantage.

### **4. Languages:**

Very good spoken and written English is essential. Knowledge of Chinese is an advantage.

### **5. Terms of appointment, salary and benefits:**

Local employment contract at a senior scientist level for an initial period of two and half years. High level of individual responsibility. Collaboration with top level European and Chinese institutions.

### **6. How to apply:**

Application information and all necessary documentation can be accessed and downloaded from the website of the University of Pannonia (Vacancies). Further information can be received from the Human Resources Department (8200 Veszprém, Egyetem u. 10. Hungary, Tel.: +3630624236. <http://uni-pannon.hu/>)

For scientific and technical details and further information on the application procedure you may contact Dr. Brigitta Tóth ([toth.brigitta@georgikon.hu](mailto:toth.brigitta@georgikon.hu))

The vacancy notice has been published on the webpage of the Office of Public Administration and Justice on 15th May 2015.

**Deadline for submission of the applications is 24 June 2015.**