

Czech University of Life Sciences Prague (CULS), Faculty of Agrobiolgy, Food and Natural Resources, is inviting post doc to take a job in the Centre of Excellence (within the project “Centre for the investigation of synthesis and transformation of nutritional substances in the food chain in interaction with potentially harmful substances of athropogenic origin: comprehensive assessment of soil contamination risks for the quality of agricultural products”, reg. no. CZ.02.1.01/0.0/0.0/16_019/0000845).

The position is funded by EU, managing authority the Czech Operational Programme Research, Development and Education

Job Title: Post-Doc Researcher in Modelling of Soil Processes

Location: Prague, Czech Republic

Employer: Faculty of Agrobiolgy, Food and Natural Resources, (CULS) Prague

Salary: 1.750 ,- Euros per month (gross)

Job type: Full Time

Starting date: October 2018

Term contract duration: 12 months with the extension up to 6/2023

Topic: Modelling of substances’ behaviour and transport in soils

Objectives/Job description:

Position is open for those dealing with modeling of processes taking place in soil-water-plant environment, i.e. modeling of water flow, various substances and heat transport in soils, and also modeling of water, solute and energy uptake by plants. The main topic will be modeling of those processes using the HYDRUS programs and other related software. Therefore, the knowledge in soil processes, soil chemistry and mathematical modeling are required. The candidate should have deep experience in determination and mathematical description of properties and factors controlling water flow, and solutes (mainly pharmaceuticals and pesticides) behavior and transport in soils. The familiarity with experimental and mathematical methods for evaluation of soil structural elements, pores, plant roots, water flow and solute transport in soils using computer tomography can be an advantage. The candidate should be able to work independently as well as in a small team, potentially as a small team leader. He or she should have good communication skills. A good publication record and an excellent knowledge of written and oral English is obligatory.

To be considered for a position, applicants must meet all these requirements:

- Post-doc status: holder of PhD, qualification completed within last 7 years.
- Minimum qualification: two published scientific papers within last three years

Application should contain:

- Diploma, diploma supplement (with nostrification if necessary)
- CV with the list of publications
- Relevance of the applicants research area to the job description

Application deadline:

Please apply before 21.8. 2018 by sending all required documents to pacek@af.czu.cz

About the employer:

The Department of Soil Science and Soil Protection specialises on education and research in the field of soil science and soil protection. The working group at the department focuses on the experimental and mathematical assessment of the soil properties affecting transport processes in soils as well as on the modeling of those processes in soil environment. During last years, research is dedicated to investigation of behavior and transport of pesticides and pharmaceuticals in soils, and their uptake, transformation and translocation in plants. The Department is well equipped for both basic and advanced analyses of soil structure, chemical, physical and hydraulic properties, properties characterizing various compound s behaviour in soils and mathematical modelling. The Department collaborates with numerous research and academic institutions in the Czech Republic and abroad.

3 areas of research:

Modelling of Soil Processes; Soil Hydrology; Soil Pollution