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### **PhD position in monitoring and modeling micro-plastic transport in rural catchments**

The Department of Landscape Water Engineering in the Faculty of Civil Engineering at Czech Technical University in Prague (CTU) is looking for a doctoral candidate (PhD student) who would join our team and work with us to observe the principles of microplastic (MiP) movement in agricultural fields and drainage network due to soil erosion, tillage erosion, surface runoff, and floods.

The student will take a part in a cross disciplinary European project „ Macro and Microplastic in Agricultural Soil Systems (SOPLAS)“. The focus of the CTU group will be to monitor and model the pathways and hotspots of MiP accumulation at the small agricultural catchment scale. The research will include field work and numerical modeling of water runoff and soil erosion.

Duration: July 2021 – June 2023

Main place of work: CTU in Prague, Czech Republic. Regular work at experimental catchments in the countryside and short-term stays at project partners' institutions.

#### **Eligibility:**

- Master's degree in environmental engineering, hydrology, hydrogeology, agriculture, physical geography or related field. (Nostrification of degree by CTU in Prague will be required)
- Must be in the first four years of research career
- Have not been awarded a doctoral degree
- Have not resided in the Czech Republic for more than 12 months in the last 3 years
- Background in hydrology and soil physics desirable
- Experience with hydrological modeling and GIS preferred
- Proficient in spoken and written English
- Creativity, independence, and the ability to come up with new ideas necessary!

#### **We offer:**

- Team work and a lot of interaction with our project partners, access to an extensive research network
- The research is intended to lead to the attainment of a PhD degree
- Full-time employment contract for 36 months (incl. social security coverage) - equivalent of 2429 €/month
- Additional family allowance (if married or dependent children) – 185 €/month

#### **Application must include:**

1. Curriculum vitae (Europass format recommended, please specify your residence/work places in the last 3 years)
2. University diploma and transcripts (grades) and other relevant certificates
3. Cover letter explaining your motivation

Your application will be evaluated by the SOPLAS international project board and pre-selected candidates will be invited to an online interview during February.

Please, send your application with all attachments to [david.zumr@fsv.cvut.cz](mailto:david.zumr@fsv.cvut.cz) by **January 31, 2021**. Contact person: David Zumr, Czech Technical University in Prague, [storm.fsv.cvut.cz](http://storm.fsv.cvut.cz)