



## **PhD Position in Soil Science – Soil–Plant Interactions under Climate Change**

Full-time, 4 years | Start October 2026 (optional part-time 50–75% from mid-April 2026)

The Faculty of Science, Charles University, invites applications for a PhD position in **soil–plant interactions under changing climatic conditions**, focusing on **soil organic matter dynamics under drought and elevated CO<sub>2</sub>**. The PhD student will be based at the [Institute for Environmental Studies](#), Faculty of Science, Charles University, Prague. The position is part of an ongoing research project under the supervision of Dr. [Olga Vindušková](#) (Assistant Professor).

We are seeking a motivated candidate with a strong interest in environmental research, soil carbon dynamics, and experimental approaches to climate change impacts on soils and plants.

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### **Responsibilities**

- Preparation of soil and plant samples and performing laboratory analyses using various methods
- Establishment and maintenance of pot experiments in greenhouses and growth chambers
- Work on scientific publications (4 publications required for PhD completion)
- Presentation of results at lab meetings and national/international conferences
- Participation in at least one international research stay of at least one month

### **Research methods will include especially:**

- Soil organic carbon (SOC) fractionation
  - Soil respiration measurements
  - Carbon isotope analyses
  - FTIR spectroscopy
  - Root and root exudate analyses
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### **Requirements**

- MSc degree (or equivalent) in soil science, ecology, environmental science, or a related field
- Laboratory experience
- Good command of English (sufficient for scientific literature and communication)
- Positive attitude toward nature and environmental research
- Independence, responsibility, and attention to detail
- Ability to organize own experimental work
- Teamwork and active communication of results



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- Basic knowledge of statistical analysis (e.g., R or equivalent)
- Openness and motivation to apply for a student grant or external funding during the PhD

### **Additional advantages (not required but welcome):**

- Experience with soil organic matter analyses
  - Driving license (useful for fieldwork)
  - Sense of humor and positive attitude
  - Active hobbies or interests outside of work
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### **We Offer**

- 4-year full-time PhD position in [Environmental Science](#) (starting October 2026)
  - Option to start part-time (50–75%) from mid-April 2026
  - Supportive and collaborative research environment
  - Engaging and meaningful research project in environmental science
  - Optional participation in teaching or supervising
  - Based at the Institute for Environmental Studies, Faculty of Science, Charles University, Prague, Benátská 2, located in the Botanical Garden of the Faculty of Science
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### **How to apply:**

To apply, please submit your application **by 23<sup>rd</sup> March via an [online Google Form](#) (recommended)** or, alternatively, **via e-mail** ([olga.vinduskova@natur.cuni.cz](mailto:olga.vinduskova@natur.cuni.cz)). Include your **CV and motivation letter (required)**, and optionally your MSc thesis.