



Přírodovědecká  
fakulta  
Faculty  
of Science

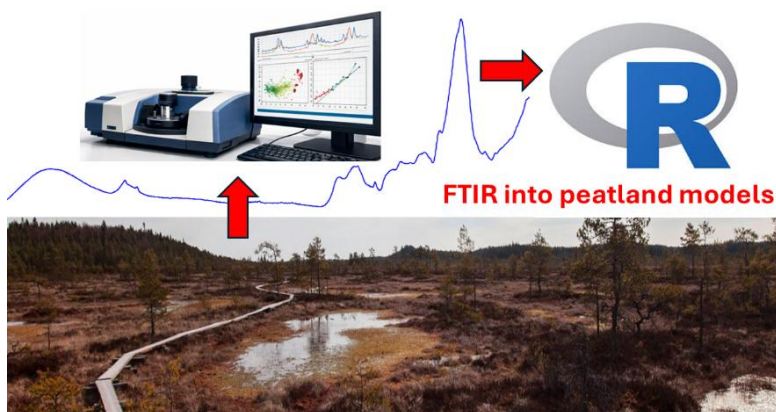
Jihočeská univerzita  
v Českých Budějovicích  
University of South Bohemia  
in České Budějovice

# Postdoc in Plant and Soil Spectroscopy (FTIR)

Peatland Ecology Group, Department of Ecosystem Biology,  
Faculty of Science, University of South Bohemia, České Budějovice, CZECHIA

<https://www.prf.jcu.cz/en/peatlands>

We are seeking a **postdoctoral researcher** to join our Peatland Ecology Group to investigate plant–soil interactions and carbon and nutrient dynamics in peatland ecosystems, with a strong focus on FTIR spectroscopy and chemometrics. The tasks include the development and application of spectroscopy-based methods as alternatives to traditional chemical analyses, spectral data processing and multivariate analysis, spectral interpretation, chemometric model development (preferably using R and/or Python). Ability to work with large spectral datasets, including developing and managing spectral libraries or databases, is required.



The position offers an excellent opportunity to work on interdisciplinary projects combining spectroscopy, environmental chemistry, ecology, and ecosystem modelling within an international research environment.

## We offer:

- A stimulating research position in a supportive and friendly team
- International collaboration, opportunities for research stays abroad, career development support
- Full-time contract for 18 months (possibility of extension)
- Starting monthly gross salary of 55 000 to 65 000 CZK, based on qualifications, skills and experience (allows for a comfortable standard of living in the České Budějovice region)
- Employee benefits, including 5 weeks of vacation, health insurance and pension contributions
- High quality of life in a safe country with low living costs and rich natural and cultural environment

## We require:

- PhD in organic or environmental chemistry, soil biology, ecology, biostatistics, or a related field
- Strong experience with spectroscopy data, chemometrics, multivariate modelling
- Ability to work with large spectral datasets, building and managing spectral libraries or databases
- Proficiency in R/Python (for statistical modeling, chemometric analysis, and reproducible research)
- Proactive and responsible approach, strong organizational skills, and ability to work in a team
- Excellent command of English (the working environment is international)

**Start:** April 2026 (negotiable), for 1.5 years

**Application deadline:** 28<sup>th</sup> February 2026 (applications are reviewed on a rolling basis)



Přírodovědecká  
fakulta  
Faculty  
of Science

Jihočeská univerzita  
v Českých Budějovicích  
University of South Bohemia  
in České Budějovice

### How to apply?

Please send an email to **Mgr. Petra Straková, D.Sc.:** [FTIR@post.cz](mailto:FTIR@post.cz) and attach the single pdf including a **motivation letter (~ 1 page), CV with a list of publications, and contact information for two references** (one of them preferably a previous supervisor).

**If you are not fulfilling all the requirements but are enthusiastic to join us, please email us ([FTIR@post.cz](mailto:FTIR@post.cz)) and describe your situation in the cover letter. Do not hesitate to contact us with any further questions.**