



Within the Department of Physics, we are now looking for a highly motivated candidates to offer a

PhD position in Biophysics

The Ph.D. projects will be carried out in the Spectroscopy group of the Department of Physics (www.polivkalab.cz). The group focuses on application of femtosecond transient absorption spectroscopy to study ultrafast processes in various systems. The laboratory has long-standing tradition in studies of excited state dynamics of carotenoids and energy and/or electron transfer in photosynthetic systems. The core equipment in the lab is a femtosecond laser system equipped with two independent parametric amplifiers and two separate detection systems. In addition to the ultrafast spectroscopic equipment, standard spectroscopic tools and a fully equipped biochemical laboratory are also available. A new laser system will be installed during the project.

Two Ph.D. positions, starting in 2024, are available:

About the Project

The Ph.D. projects will focus on applications of ultrafast spectroscopy to studies of non-photochemical quenching and light-harvesting in photosynthesis. The students will work in a group consisting of physicists, chemists and biologists and their main task will be to learn various ultrafast spectroscopy methods and apply them to studies of excited-state dynamics of molecules and pigment-protein complexes.

Requirements :

- MSc degree in Physics/Chemistry/Biology
- willingness to learn skills from multiple disciplines
- strong written and verbal communication skills in English
- independence and the ability to proactively develop and implement research ideas
- good planning and time management skills
- the ability to work independently as well as collaboratively within the research group.
- good interpersonal skills and enthusiasm for working with an international, interdisciplinary team



The University of South Bohemia

The University and Biology Centre of Czech Academy of Sciences campus in České Budějovice provides a vibrant and International research environment. The campus is located in the historic town České Budějovice, which offers many cultural and recreational activities in addition to its close proximity to Prague (2hrs drive), Vienna (2hrs drive), Munich (3hrs), and to the wonderful Czech scenery and the Austrian Alps.

More info about [the university](#) and the [Welcome guide for international staff](#).

More info about [the city of České Budějovice](#).

More info about [the living costs in České Budějovice](#).

What we offer:

- 4-year position at the Department of Physics, Faculty of Science, University of South Bohemia, Ceske Budejovice, Czechia
- PhD position also includes funds for mobility and research material and equipment
- work-life balance in a middle-sized university city offering options for outdoor, sport & cultural activities
- administration support with relocation & settlement in the Czech Republic
- meal allowance, full health insurance

How to apply

Are you interested? Then we are looking forward to receiving your application until **January 31st, 2024** on the following email: jobs@prf.jcu.cz.

Please include the following documents:

- letter of motivation / research statement (2-3 pages) addressing the following points:
 - describe how you fulfil our essential requirements and which desirable experience you offer
 - describe your main scientific interests, how they developed, and how they relate to the proposed research project
 - explain what scientific questions most motivate you and why
- curriculum vitae (CV)
- academic transcripts for your BSc and MSc degrees (English, can be unofficial at this stage)
- contact information for 2 personal references (we may contact them if you are short-listed)





Přírodovědecká
fakulta
Faculty
of Science

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

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- sample of your scientific writing (e.g. publication or manuscript in prep, thesis, term paper, etc.)

For more information about the research part of the position, please, contact prof. Tomas Polivka (tpolivka@prf.jcu.cz).

Please note that the selected candidate will also need to submit an application for admission as a graduate student.

