

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

Fakulta rybářství
a ochrany vod
Faculty of Fisheries
and Protection
of Waters

Ph.D. study

Research assistant in biological and biologically-related fields

Activities

- Daily Ph.D. study in the discipline of Fishery or Protection of Aquatic Ecosystems
- Working on student's own Ph.D. thesis topic (the list of available Ph.D. thesis topics and the contact details of the supervisors are available below)
- Publishing manuscripts in Q1-Q3 journals
- Presenting results at international conferences and faculty seminars, completing research internships abroad
- Work experience at the faculty's operational departments
- Teaching or assisting with courses, consulting or supervising bachelor's or master's students
- Supervising international summer school projects
- Other activities within the given research unit

Requirements on applicants:

- Successfully completed master's degree study in environmental chemistry, toxicology, ecology, biology, protection of environment, fishery, agriculture, veterinary medicine or related fields
- Admission into the Fishery Ph.D. study program or the Protection of Aquatic Ecosystems Ph.D. study program at USB FFPW, full-time form of study
- General knowledge of biology, aquatic ecology and chemistry
- English language knowledge at the B1 level or higher
- User-level computer skills, particularly the MS Office suite (Word, Excel, PowerPoint, Outlook)
- Communicativeness, ability to work independently, organizational and systematic skills, responsibility, conscientiousness, organizational ability, willingness to learn new things, stress resistance

We offer:

- Nice working environment in new faculty facilities
- Study and work in an international team
- Opportunities for personal and professional development
- Other benefits (5 weeks of paid leave, 4 days of sick leave, MS Office for private use)

Starting date: February 2027

Working hours: equivalent to a full-time workload (40 hours per week)

Duration of the position: 4 years (standard duration of the Ph.D. study program)

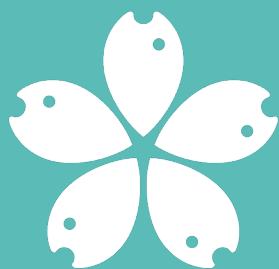
Net monthly income: from CZK 26 880 (depending on the study results)

Place of work: depending on the supervisor's location (Vodňany, České Budějovice, Nové Hradky)

Get in contact with the supervisor listed under the selected topic. **If you reach a mutual agreement, complete the e-application to study.** Applicants should submit e-application to the Ph.D. study program at USB FFPW via e-mail at vzamecnikova@frov.jcu.cz by **November 30, 2026**.

More information at: <https://www.frov.jcu.cz/en/admissions/admission-procedures>





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Topics for dissertation thesis for **DSP Fishery** for ac. year 2026/2027

Research Institute of fish Culture and Hydrobiology - Vodňany

Vitaliy Kholodnyy, Ph.D. – vkholodnyy@frov.jcu.cz, +420 389 034 607

- Functional diversity of ovarian fluid in freshwater fish fertilization: effects on sperm performance, fertilization success, and species specificity / Funkční diverzita ovariální tekutiny při oplození sladkovodních ryb: vliv na vlastnosti spermií, úspěšnost oplození a druhovou specifitu

Prof. Otomar Linhart - linhart@frov.jcu.cz, +420 724 357 897

- Integrative analysis of the effects of short-term sperm storage on sperm physiology, embryonic proteome, and ncRNA-mediated transgenerational inheritance in common carp (*Cyprinus carpio*) and zebrafish (*Danio rerio*) / Integrovaná analýza vlivu krátkodobého uchování spermií na fyziologii spermií, embryonální proteom a transgenerační dědičnost zprostředkovanou nekódujícími RNA u kapra obecného (*Cyprinus carpio*) a zebřičky pruhované (*Danio rerio*)

Jan Štundl, Ph.D. – jstundl@caltech.edu, +1 (626) 696-7167

- "Adult stem cells" and regeneration: The role of neural crest-derived Schwann cell precursors during the bone regeneration / „Dospělé kmenové buňky“ a regenerace: Role prekursorů Schwannových buněk odvozených z neurální lišty během regenerace kosti

Institute of Aquaculture and Protection of Waters – České Budějovice

Quang Hung Tran, Ph.D. – htranquang@frov.jcu.cz, +420 389 034 682

- Deep Learning-Based Analysis of Feed Palatability in Aquaculture Species / Analýza chutnosti krmiva u akvakulturních druhů založená na hlubokém učení

Radek Gebauer, Ph.D. – rgebauer@frov.jcu.cz, +420 389 034 647

- Sustainable Recovery and Valorization of Pond Sediment in Circular Bioeconomy / Udržitelné využití a zhodnocení rybníčního sedimentu v podmínkách cirkulární bioekonomiky

Koushik Roy, Ph.D. – kroy@frov.jcu.cz, +420 389 034 648

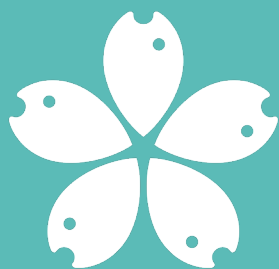
- Carbohydrates in the pond food web, their interactions with fish nutrition and water quality / Sacharidy v potravní síti rybníka, jejich interakce s výživou ryb a kvalitou vody

Institute of Hydrobiology CAS České Budějovice

Milan Říha, Ph.D. – milan.riha@hbu.cas.cz, +420 387 775 855

- Spatiotemporal dynamics of fish movement: The role of orientation, temperature, and hydrology in habitat selection / Časoprostorová dynamika pohybů ryb: role orientace, teploty a hydrologických poměrů na výběru habitat





Topics for dissertation thesis for **DSP Protection of Aquatic Ecosystems** for ac. year 2026/2027

Research Institute of fish Culture and Hydrobiology - Vodňany

doc. Miloš Buřič, Ph.D. – buric@frov.jcu.cz, +420 724 204 706

- Responsible compounds in chemical communication of crayfish /
Sloučeniny odpovědné za chemickou komunikaci raků

Ganna Fedorova, Ph.D. – gfedorova@frov.jcu.cz, +420 775 360 674

- Nature-inspired approaches for wastewater treatment and reuse / Přírodou
inspirované přístupy k čištění a opětovnému použití odpadních vod

doc. Hana Kocour Kroupová, Ph.D. - kroupova@frov.jcu.cz, +420 389 034 621

- Effects of thyroid-disrupting chemicals on fish and amphibians, focusing on
their immune systems / Účinky chemických látek narušujících funkci štítné
žlázy na ryby a obojživelníky se zaměřením na jejich imunitní systém
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