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
Specialist 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
- Teaching or assisting with courses, consulting or supervising bachelor's or master's students
- Supervising 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, biology, 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, 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 2026
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 25,000 (depending on the study results)
Place of work: depending on the supervisor's location (Vodňany, České Budějovice, Nové Hrady)

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 svesela@frov.jcu.cz by **December 1, 2025.**

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

HR EXCELLENCE IN RESEARCH

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Topics for dissertation thesis for **DSP Fishery** for ac. year 2025/2026 – 2nd call

Research Institute of fish Culture and Hydrobiology - Vodňany

Olga Bondarenko, Ph.D. – obondarenko@frov.jcu.cz, + 420 378 774 607

- Evaluation of Risks from Environmentally Prevalent Antibiotics and Antimycotics Targeting Fish Sperm Ion Channels: Impacts on Motility Activation and Fertilization Success / Hodnocení rizik environmentálně prevalentních antibiotik a antimykotik zaměřených na iontové kanály rybího spermatu: Dopady na aktivaci pohyblivosti a úspěšnost oplodnění

Serhii Boryshpolets, Ph.D. – sboryshpolets@frov.jcu.cz, + 420 773 101 458

- Study of Sperm Physiology and Motility in Bitterlings in the Context of Reproductive Strategy: Comparison with Zebrafish and Carp / Studium fyziologie a motility spermií u hořavek v kontextu reprodukční strategie: srovnání s daniem pruhovaným a kaprem

Evgenia Gazo Ph.D. – gazo@frov.jcu.cz, + 420 387 774 607

- Long-term consequences of early life DNA damage in fish embryo / Dlouhodobé důsledky poškození DNA v raných stádiích vývoje rybího embrya

Assoc. Prof. Borys Dzyuba – bdzyuba@frov.jcu.cz, + 420 739 488 660

- Sperm cryopreservation strategies for small-bodied fishes: optimising slow freezing and vitrification for practical application / Strategie kryokonzervace spermií u malých ryb: optimalizace pomalého zmrazování a vitrifikace pro praktické využití

Institute of Hydrobiology CAS České Budějovice

Assoc. Prof. Radka Symonova – radka.symonova@gmail.com, +420 387 775 893

- Molecular background of the developmental switch from planktivory to piscivory in pikeperch brain / Molekulární mechanismy přechodu k dravému způsobu života v mozku mladých candátů

Prof. Jan Kubečka – kubecka@hbu.cas.cz, +420 604 344 267

- Population dynamics of fish in reservoirs / Populační dynamika ryb v nádržích

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Faculty of Fisheries and Protection of Waters

Topics for dissertation thesis for **DSP Protection of Aquatic Ecosystems** for ac. year 2025/2026 – 2nd call

Research Institute of fish Culture and Hydrobiology - Vodňany

Bořek Drozd, Ph.D. – drozd@frov.jcu.cz, +420 389 034 652

- Fish migration in a regulated lowland river / Migrace ryb v regulované nížinné řece

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

Assoc. Prof. Antonín Kouba – akouba@frov.jcu.cz, +420 607 622 137

- Macrobrachium nipponense: a new threat to European freshwater ecosystems / Macrobrachium nipponense: nová hrozba pro evropské sladkovodní ekosystémy

Lukáš Veselý – veselyl@frov.jcu.cz, +420 728 486 172

- Freshwater food webs under biotic and abiotic stressors / Vliv biotických a abiotických stresorů na sladkovodní potravní řetězce

Assoc. Prof. Andrea Vojs Staňová – vojsstanova@frov.jcu.cz, +420 387 774 752

- Advanced oxidation processes for effective, ecologic, and safe wastewater treatment / Pokročilé oxidační procesy pro efektivní, ekologické a bezpečné čištění odpadních vod

Prof. Vladimír Žlábek – vzlabek@frov.jcu.cz, +420 777 698 427

- Bioaccumulation dynamics of emerging contaminants in aquatic invertebrates / Bioakumulační dynamika emergentních kontaminantů ve vodních bezobratlých organismech

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