

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
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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
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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)
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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)

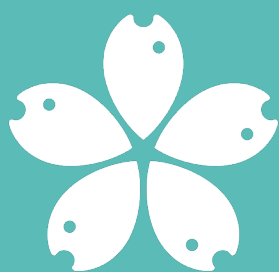
Place of work: depending on the supervisor's location
(Vodňany, České Budějovice, Nové Hradky)

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

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 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 vitifikace pro praktické využití

Institute of Hydrobiology CAS České Budějovice

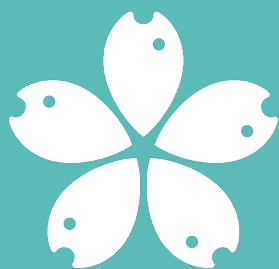
Assoc. Prof. Radka Symonova – radka.symonova@gmail.com, +420 387 775 893

- 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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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

