



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

Fakulta rybnářství
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 discipline of Fishery of Protection of Aquatic Ecosystems;
- Work on own Ph.D. thesis topic (List of available Ph.D. thesis topics and contact to supervisors you can find below);
- Publication of manuscripts in Q1-Q3 journals;
- Presentation of results at international conferences, faculty seminars, realization of research internships abroad;
- Tuition in field of study, consulting or supervising of bachelor or master students,
- Supervising of summer school projects;
- Other activities within given research unit.

Requirements on applicants:

- Successfully completed master study field of environmental chemistry, toxicology, ecology, biology, protection of environment, fishery, biology, agriculture, veterinary or related fields;
- Admission into Ph.D. study program Protection of Aquatic Ecosystems at USB FFPW, full-time form of study;
- General knowledge of biology, aquatic ecology and chemistry;
- English language knowledge minimally at B1 level;
- User knowledge of PC work – MS Office (Word, Excell, PowerPoint, Outlook); Communicativeness, responsibility, thoroughness, organizational ability, willingness to learn new things, stress resistance.

We offer

- Nice working environment in new faculty infrastructures;
- Study and work in international collective;
- Possibility for personal and professional development;
- Other benefits (5 weeks holiday, 4 days of indisposition vacation, MS Office for private usage);

Position start: October 2022

Working hours: reflecting full work load (40 hours a week)

Duration of position: 4 years (based on the duration of Ph.D. study)

Net month income: 16 200-20 000 CZK (based on the study results)

Place of work: based on the selected supervisor (RIFCH, Zátíší 728/II, Vodňany; IAPW, Husova tř. 458/102, České Budějovice; ICS, Zámek 136, Nové Hradky)

Get in contact with supervisor written by the selected theme. **In case of a mutual deal, complete the application to study.** Applicants for position should submit application to Ph.D. study at USB FFPW to address: Faculty of Fisheries and Protection of Waters, Office for Ph.D. study and foreign relationships, Zátíší 728/II, 389 25, Vodňany, Czech Republic or into e-mail lkacerova@frov.jcu.cz within **May 9, 2022**.

More information at:

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





Topics for dissertation thesis for DSP Fishery for ac. year 2022/2023

M.Sc. Serhii Boryshpolets, Ph.D. – sboryshpolets@frov.jcu.cz, + 420 387 774 615

- Effect of viscosity on fish sperm motility / Vliv viskozity na pohyblivost spermií ryb
- Short-term storage of freshwater fish spermatozoa: improvement and application / Krátkodobé uchování spermatu sladkovodních druhů ryb: vývoj a aplikace

M.Sc. Olga Bondarenko, Ph.D. – obondarenko@frov.jcu.cz, + 420 387 774 607

- Potassium signaling in fish spermatozoa / Signalizace draselnými ionty při motilitě spermií u sladkovodních ryb

MVDr. Veronika Piačková, Ph.D. – piackova@frov.jcu.cz, + 420 387 774 621

- Occurrence, persistence and spread of viral pathogens in carp and koi aquaculture / Výskyt, perzistence a šíření virových patogenů v chovech kapra a koi kapra

MVDr. Eliška Zusková, Ph.D. – zuskova@frov.jcu.cz, + 420 387 774 621

- Histology as diagnostic tool in aquaculture / Využití histologie v akvakultuře

Mgr. Tomáš Korytář, Ph.D. – tkorytar@frov.jcu.cz, +420 387 774 681

- Deciphering the mucosal immunity in common carp / Porozumění mukozální imunity u kapra obecného

Ing. Vlastimil Stejskal, Ph.D. – stejskal@frov.jcu.cz, +420 737 221 930

- Using of novel strategies to improve nanovaccine effectiveness in salmonids and percids / Využití inovativních strategií ke zvýšení účinnosti nanovakcín u lososovitých a okounovitých ryb
- Smart delivery of bioactive substances to improve resistance of fish against pathogens and/or environmental stressors / Inovativní podávání bioaktivních látek pro zlepšení odolnosti ryb proti patogenům a environmentálním stresorům

Mgr. Otakar Strunecký, Ph.D. – ostrunecky@frov.jcu.cz

- Composition of the microbiome in intensive aquaculture systems; monitoring and assembly of microbial consortium for pre-inoculation based on beneficial microorganisms / Složení mikrobiomu v intenzivní akvakultuře: jeho analýza a příprava konsorcia prospěšných mikroorganismů pro inokulaci

doc. Ing. Martin Kocour, Ph.D. – kocour@frov.jcu.cz, +420 387 774 612

- Genetically improved stocks of common carp – impacts and challenges in Central European pond management conditions / Obsádky kapra s vyšším užitkovým potenciálem – výzvy a dopady v podmínkách rybníčního hospodaření střední Evropy

doc. Ing. Tomáš Polícar, Ph.D. – policar@frov.jcu.cz, +420 387 774 606

- Enhancing the efficiency of pikeperch culture by new biotechnology and technology approaches / Podpora efektivity chovu candáta obecného (*Sander lucioperca* L.) novými biotechnologickými a technickými přístupy

doc. Mgr. Radka Symonová, Ph.D. – radka.symonova@hbu.cas.cz, + 420 387 775 893

- (Cyto)genomics in biodiversity assessment and conservation of fish / Využití (cyto)genomiky pro stanovení a ochranu biodiverzity u ryb

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Topics for dissertation thesis for DSP Protection of Aquatic Ecosystems for ac. year 2022/2023

Ing. Bc. Kateřina Grabicová, Ph.D. – grabicova@frov.jcu.cz, + 420 387 774 752

- Polar micropollutants and aquatic organisms – a study of fate and effects with application of targeted and non-targeted LC/HRMS analysis

doc. Mgr. Roman Grabic, Ph.D. – grabic@frov.jcu.cz, + 420 387 774 756

- Development of LC/HRMS methods and data analysis workflows for identification of compounds with adverse effects in sample fractions selected by Effect Directed Analysis (EDA)

doc. RNDr. Andrea Vojs Staňová, Ph.D. – vojsstanova@frov.jcu.cz, + 420 387 774 752

- High-resolution mass spectrometry for identification and quantification of emerging contaminants and their degradation/transformation products in the environment

Mgr. Jiří Jablonský, Ph.D. – jjablonsky@frov.jcu.cz, + 420 387 773 828

- Multi-omics integration deciphering the metabolic regulation of cyanobacteria

M.Sc. Ganna Fedorova, Ph.D. – gfedorova@frov.jcu.cz, +420 387 774 752

- Pharmaceuticals in reclaimed water: possibilities, benefits and risks of wastewater reuse

Ing. Jan Urban, Ph.D. – urbanj@frov.jcu.cz, +420 387 773 842

- Fluxes of matter, energy, and information in Ordinary Differential Equation model of dynamic ecosystem
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