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 discipline of Fishery or 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 interships 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, toxikology, 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 resistence.

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 2023
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, Zátiší 728/II, Vodňany; IAPW, Husova tř. 458/102, České Budějovice; ICS, Zámek 136, Nové Hrady)

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, Zátiší 728/II, 389 25, Vodňany, Czech Republic or into e-mail lkacerova@frov.jcu.cz within **May 8, 2023.**

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

HR EXCELLENCE IN RESEARCH

Topics for dissertation thesis for DSP Fishery for ac. year 2023/2024

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

- Mechanisms of potassium signaling in fish spermatozoa motility /Signalizace draselnými ionty při motilitě spermií u sladkovodních ryb

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

doc. MSc. Borys Dzyuba, Ph.D. – bdzyuba@frov.jcu.cz, + 420 389 034 614

- Sperm aging in relation to cryoresistance in fishes / Stárnutí spermií ve vztahu ke kryorezistenci u ryb

prof. Ing. Martin Flajšhans, Dr. rer. Agr. – flajsh@frov.jcu.cz, + 420 389 034 608

- Mosaicism in sturgeons / Mosaicismus u jeseterů

prof. Ing. Otomar Linhart, DrSc. – linhart@frov.jcu.cz, + 420 389 034 743

- DNA methylation in heterogenous populations of fish spermatozoa after their aging *in vitro* / Methylace DNA v heterogenních populacích rybích spermií po jejich stárnutí *in vitro*

doc. Ing. Jan Mráz, Ph.D. – jmraz@frov.jcu.cz, + 420 389 034 643

- Development of new fish products / Vývoj nových rybích výrobků

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

- Factors affecting fish immunity in relation to infectious diseases / Faktory ovlivňující imunitu ryb v souvislosti s infekčními chorobami

doc. Ing. Martin Pšenička, Ph.D. – psenicka@frov.jcu.cz, +420 389 034 784

- Effect of light on early embryo development in fish/ Vliv světla na raný vývoj embrya u ryb

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

- Fish respirometric profiling and its importance for aquaculture / Respirometrické profilování ryb a jeho význam pro akvakulturu

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. 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 2023/2024

doc. Ing. Martin Bláha, Ph.D.– blaha@frov.jcu.cz, +420 389 034 611

- Who eats who: using biomarkers to reveal food links in aquatic ecosystems

doc. Ing. Miloš Buřič, Ph.D.– buric@frov.jcu.cz, +420 389 034 769

- Fish assemblages in the Slovak part of the Danube River: recent status and possible remediation options in the future

M.Sc. Ganna Fedorova, Ph.D.– gfedorova@frov.jcu.cz, +420 389 034 756

- The effect of emerging pollutants on the neurotransmission system of aquatic organisms

Ing. Bc. Kateřina Grabicová, Ph.D.– grabicova@frov.jcu.cz, +420 389 034 752

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

Dr. ric. Phillip Haubrock, Ph.D. – phillip.haubrock@senckenberg.de

- Spatial patterns of biological invasions and their impacts on biodiversity

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