



The Friedrich Schiller University in Jena, German, is a traditional university with a strong research profile located in central Germany. It is a university that covers a wide range of disciplines. Research is focused on the areas Light-Life-Liberty. Our university collaborates closely with research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city.

The Institute for Zoology and Evolutionary Research conducts modern zoological research with a comparative evolutionary perspective. The research topics range from entomology to functional vertebrate morphology, comparative developmental biology and animal physiology. The **Hejnoj Lab** invites applications for 2 Postdoc positions and the **Olsson Lab** seeks 1 postdoc. The positions are to be filled with

3 Research assistants (PostDocs)

in Evolutionary Developmental Biology of animals (f/m/d)

commencing on 01. April 2022.

The **Hejnoj Lab** offer several projects that range from genomic analysis, morphology, to advanced comparative developmental biological approaches of non-model organisms. We combine advanced methods in molecular biology, genomics, electron- and light microscopy, and single cell-omics to study a range of marine and limnic non-model organisms. The projects will connect the genotype-level of organisation with the phenotype and compare the results using the comparative evolutionary approach. The postdocs are expected to use existing technology and moving the implementation of modern techniques to non-model species forward. It is expected to solve current questions in animal evolutionary biology that relate to the evolution of cell types, organ systems, developmental pathways, physiological processes, and the interaction of the organism with the environment. A large list of interesting evolutionary modifications including developmental, physiological, and morphological traits in non-vertebrate species is available to be studied, and choices can be influenced by the preference of the postdoc. Active contribution in teaching and outreach, e.g., through the Phyletic Museum is expected.

The mission of our groups is to understand how nature's fascinating phenotypic diversity has evolved and how genomic, cellular and developmental changes led to this diversity. The work in the Hejnoj lab includes bioinformatic and embryological work. Since the Principal Investigator Andreas Hejnoj is also director of the Phyletic Museum the lab actively contributes to its outreach activities. English is the working language in our lab.

The Olsson Lab works on comparative developmental studies of the head in vertebrates. The focus has so far been on amphibians and fishes, but the postdoc. is of course free to work on other organisms. Main questions include the transition to biphasic and terrestrial life cycles and the evolution of novelties associated with these transitions. Techniques used includes fate mapping, gene down- and up-regulation and gene editing. Three-dimensional reconstruction of embryonic and larval anatomy using confocal microscopy, microCT and the synchrotron at DESY - in addition to histology - is central to our research, as is standard methods such as clearing-and-staining, Antibody-staining and *in-situ* hybridization.

Depending on the seniority of the candidate, the degree of independency can be increased with the opportunity to attract own funding, design own courses and develop an own research path. The



independency will be visualised by e.g. own webpage. Further, the opportunity for a habilitation will be provided.

Your responsibilities:

You will conduct a research project related to comparative developmental biology. You will support the training and education of lab members and students. You will conduct teaching of one or more courses in zoology, evolutionary biology, molecular biology, or bioinformatics in the area of zoology and evolutionary biology (4 SWS) you will participate in collection trips to marine field stations. You participate in national and international meetings in your area of responsibility. You will write and publishing scientific papers in peer-reviewed journals. You will participate in teaching and outreach activities.

Your profile:

- Successfully completed university studies in with a focus on zoology, developmental biology, evolutionary biology, genomics or a related area followed by a doctoral degree
- Knowledge of evolutionary biology, developmental biology and molecular approaches
- Experience in working with embryos or other developmental stages of animals are favourable.
- Knowledge in bioinformatics and sequence analysis is an advantage.
- English communication skills, both written and spoken

We offer:

Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale E13 - depending on the candidate's personal qualifications-, including a special annual payment in accordance with the collective agreement. Independent work with one of the largest employers in Thuringia/exciting and varied fields of activity with creative freedom You work in national and international network structures with renowned universities and research institutions

Flexible working hours (flexitime and, if applicable, teleworking)
A family-friendly working environment with a variety of offers for families: University Family Office 'JUniFamilie' and flexible childcare ('JUniKinder')
University health promotion and a wide range of university sports activities
Attractive fringe benefits, e.g. capital formation benefits (VL), Job Ticket (benefits for public transport), and an occupational pension (VBL)

The position is fully funded and should ideally start no later than 1st of April 2022.

The employer is the Friedrich-Schiller-University Jena, who supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.



How to apply

Are you eager to work for us? Then send your application that includes a CV with publication list and contact information for at least two references, and a summary of previous research experience (max 1 page), and a letter of motivation (max 1 page) to apply for this job. Copies of certificates, transcripts and grades must be attached to the application.

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or

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The initial application deadline is **February 28th, 2022**, but the search will continue until the position has been filled.

For more information, please contact Prof. Dr. Andreas Hejnol (andreas.hejnol@uni-jena.de) or Prof. Dr. Lennart Olsson (lennart.olsson@uni-jena.de) correspondingly.

Since all application documents will be duly destroyed after the recruitment process, we ask you to submit only copies of your documents. For further information for applicants, please also refer to www4.uni-jena.de/stellenmarkt_hinweis.html (in German). Please also note the information on the collection of personal data at www4.uni-jena.de/en/jobs_information_collecting_personal_data.html