

Friedrich Schiller University Jena and the Senckenberg – Leibniz Institution for Biodiversity and Earth System Research are establishing a new research institute for Plant Form and Function around the Herbarium Haussknecht in Jena with (SJeP) the aim of comprehensively analysing biodiversity change in the Anthropocene, in large temporal depth and spatial breadth using modern and novel methods. The Senckenberg Society is one of the most important research institutions in the field of biological diversity. At 12 locations throughout Germany, scientists from over 40 nations conduct modern research at an international level.

SJeP will combine the expertise of four professorships in the fields of Digital Collectomics, Bryophyte Ecology and Evolution, Integrative Plant Taxonomy, as well as Plant Biodiversity. The professorships are embedded in the Senckenberg Society as well as an innovative Central German research landscape including the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig and will be provided with excellent conditions for innovative collection-based research and teaching. As part of SJeP, two professorships will be newly established as joint appointments, and another cooperating professorship will be newly filled at the University of Jena:

At the Faculty of Biological Sciences of Friedrich Schiller University Jena, Germany, two professorships

**W3- or W2TTW3-Digital Collectomics and
W2-Bryophyte Ecology and Evolution**

are to be filled as part of joint appointments with Senckenberg – Leibniz Institution for Biodiversity and Earth System Research.

The new colleagues (f/m/d) are expected to collaborate in establishing and developing the profile of the new research institute in Jena, and to work on the main research topics of Senckenberg and the University of Jena. Experience in the acquisition and implementation of third-party funded projects as well as the ability to provide dedicated leadership are required. Both positions are research professorships with a reduced teaching load. Appropriate participation in the self-administrative tasks of Senckenberg and the University is expected.

For the professorship in **Digital Collectomics** we are looking for an internationally recognized expert in the field of computer science or natural sciences with proven expertise in the development and implementation of methods in the field of digitization, artificial intelligence, machine learning and/or 2D/3D imaging and corresponding modelling in the field of biodiversity research. The successful candidate is interested in scientific and natural history collections and in biological questions as well as in inter- and transdisciplinary work in research and teaching.

The successful candidate is expected to explore, develop and implement methods for collection digitization and automated extraction and analysis of information from collection material (e.g. plant traits, chemical values, metadata from herbarium specimens). Furthermore, the candidate conceptually develops and integrates databases for collections and is responsible for the maintenance of databases. Cooperation with scientists from the Faculty of Biological Sciences, the Faculty of Mathematics and Computer Science, the iDiv, the Cluster of Excellence "Balance of the Microverse" as well as the Michael Stifel Center Jena for Data Driven and Simulation Science is desired.

Further tasks include teaching in bachelor's and master's courses in the fields of the MSc Evolution, Ecology and Systematics, and the development of interdisciplinary courses in

the fields of computer science and biology in cooperation with colleagues from the Institute of Computer Science at the University of Jena.

In order to be eligible for the position, candidates must have a completed a degree, pedagogical aptitude, a particular aptitude for academic work demonstrated by a doctorate (Ph.D. or equivalent) in computer science or natural science, preferably biology, but in this case with proven expertise in the field of computer science, as well as a *Habilitation* or equivalent academic achievements.

In the case of a first-time appointment to a professorship, the professorship shall initially be filled as a W2 professorship for a fixed term of six years. After a maximum of six years and subject to a positive tenure evaluation, appointment to a W3 professorship shall take place without re-advertisement.

For the professorship of **Bryophyte Ecology und Evolution** we are looking for an internationally recognized expert in the field of bryophyte ecology, phylogeny, and microevolution. In-depth expertise in diversity and taxonomy of bryophytes are required. The professorship is responsible for the development of the collection of cryptogams in Herbarium Haussknecht and to foster its scientific use, especially regarding the role of bryophytes for the functioning of ecosystems and as indicators of biodiversity change in the Anthropocene. We expect the participation in biodiversity research at the University of Jena in cooperation with other Senckenberg research groups and with iDiv. Further opportunities for cooperation exist with the Cluster of Excellence „Balance of the Microverse“. Additional tasks include participation in teaching as part of the BSc Biology, and the MSc Evolution, Ecology and Systematics.

Suitable applicants must have completed a degree in a relevant field, pedagogical aptitude, a particular aptitude for academic work demonstrated by a doctorate (Ph.D. or equivalent) in a relevant field such as botany or ecology, as well as a *Habilitation* or equivalent academic achievements.

In the case of a first-time appointment to a professorship, the position shall initially be filled as a W2 professorship for a fixed term of six years. After a maximum of six years and subject to a positive tenure evaluation, appointment to a permanent W2 professorship shall take place without re-advertisement.

At the Faculty of Biological Sciences of Friedrich Schiller University Jena, Germany, a

**W3 Professorship for Integrative Plant Taxonomy including
the position as the director of the Botanical Garden**

is to be filled.

We are looking for a recognized research personality (f/m/d) who covers the full breadth of the field of integrative plant taxonomy. The integrative plant taxonomy is a multidisciplinary approach that combines classic methods of taxonomical research with methods of microevolution and population genetics (including next generation sequencing), phylogenetics and phylogeography, as well as functional morphology under evolutionary aspects. The successful candidate has experience in the application of modern methods in evolutionary research and taxonomy (genetic methods, omics methods) and an interest in collection-based research. In the area of teaching, the successful candidate covers the field of systematic botany including species identification

courses in the BSc Biology and the MSc Evolution, Ecology and Systematics. The professor will also be involved in training biology teachers. The language of instruction in the undergraduate and teacher training courses is exclusively German.

Outstanding scientific achievements, which are proven by publications in international journals, successful acquisition of third-party funds, experience in supervising students, leadership skills, ability to connect to other research groups of Faculty of Biological Sciences, Senckenberg, to the iDiv, to the Cluster of Excellence "Balance of the Microverse" and relevant non-university research institutions in Jena (especially the MPI for Chemical Ecology, MPI for Biogeochemistry and MPI for Geoanthropology) as well as appropriate participation in the self-administration tasks of the University of Jena and Senckenberg are expected.

Suitable applicants must have a completed degree, pedagogical aptitude, a particular aptitude for academic work demonstrated by a doctorate (Ph.D. or equivalent) in a relevant field such as systematic botany or plant evolution, as well as a *Habilitation* or equivalent academic achievements.

The appointment as a professor takes place as a civil servant for life, provided that the legal requirements are met.

Friedrich Schiller University Jena and Senckenberg Society for Natural Research aim to increase the proportion of women in research and teaching and therefore strongly encourage qualified female academics to apply. Severely disabled persons will be given preferential consideration in the case of equal suitability.

Applications in English should include a cover letter, curriculum vitae, copies of certificates and diplomas, list of publications, list of courses and lectures, teaching evaluation, list of third-party funds acquired, and a 3-page research and teaching concept. Please send your application electronically via the appointment portal of the Friedrich Schiller University Jena

www.berufungsportal.uni-jena.de

by **10 September 2023**.

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For further information for applicants and the information on the collection of personal data, please refer to [Datenschutz und Hinweise für Bewerber:innen](#)