

Job announcement ref #11-22001

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (SBiK F) explores the interactions between biodiversity, climate, and society.

For the DFG funded project “Temperaturabhängigkeit der Punktmutationsrate: unterliegende Faktoren und Prozesse“, **Senckenberg BiK-F** invites applications for a

PhD Position

(part time, 65%)

The project deals with the questions how mutations are the fuel of evolution. According to a recent publication, the mutation rate depends on environmental factors, e.g. the temperature. In the framework of a DFG-project, we want to tackle the following important questions:

- What are the processes behind the observed thermal optimum curve of the mutation rate?
- What processes drive the variation in mutation rate?
- Why does the mutation rate increase toward both extreme temperatures?
- What determines the position of the optimum of the mutation rate on the temperature scale?
- Is it a species-specific constant or does it evolve in response to local temperature condition?

We are seeking a highly motivated PhD student (m/f/d) for 36 months to carry out the experiments and publish the results.

Your tasks

- Carry out experimental work with the non-biting midge *Chironomus riparius* in a highly modern experimental facility
- Molecular experimental assessment of oxidative stress
- Bioinformatical determination of mutation rates from whole genome resequencing data with existing pipelines

Your profile

- Master degree in a relevant area (Population Genomics, Genetics, Molecular Ecology, Molecular Biology, Biodiversity Genomics, et al.)
- Familiarity with bioinformatic (big) data analysis
- Good written and oral communication skills (English and/or German)
- Required skills (either proven or convincingly demonstrated willingness to acquire rapidly):
 - analysis of huge amounts of NGS data
 - experimental work with living animals
 - molecular laboratory skills
- Interest to collaboratively work in an interdisciplinary, international team

What is awaiting you?

Salary and benefits are according to a part-time public service position in Germany (TV-H E 13, 65%). The position is a 36-months fixed-term post, starting as soon as possible.

The Senckenberg Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

You would like to apply?

Please include the reference to this position (**ref. #11-22001**) in the subject line and include a **cover letter describing your motivation to apply, a detailed CV, relevant credentials and certificates, if available: list of publications, and contact details of 2 potential referees.**

Please submit your application **before February 15th 2022 (deadline)** via e-mail as a **single PDF file** or via our online application tool on our website to:

Senckenberg Gesellschaft für Naturforschung
Senckenberganlage 25
60325 Frankfurt am Main
E-Mail: recruiting@senckenberg.de



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