

Job posting ref. #11-17021

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 (BiK F) explores the interactions between biodiversity, climate, and society.

For the research project “**Modelling of the introduction and spread of alien species along German transportation networks**“, Senckenberg BiK-F invites applications for a

Researcher (m/f) Position

(full time)

The project is funded by an expert panel of the German ministry of transportation and the results will be made readily available for the agencies represented by this panel.

The project's goal is to identify routes and hot spots of alien species spreading along transportation networks in Germany. As a basis, we will use detailed information about flows of traffic and commodities along railways, roads and water ways. These data sets will be combined with environmental data like habitat characteristics or land-use, using a computer model for the spread of alien species. In close cooperation with Dr. Hanno Seebens (PI of this project and developer / publisher of this computer model), the computer model will be adjusted and extended according to the requirements of this project.

Scientific publications are planned in addition. The extension of a successful cooperation is envisioned in upcoming projects.

Your tasks

- Acquisition and harmonization of relevant data sets like remote sensing data sets or distributions of alien species
- Adjustment and scientific development of the existing model written in R
- Analysis of model results and writing scientific publications

Your profile

- You hold a Master's, Diploma, or PhD degree and you have a background in biology, geography, physics, scientific programming or in another related field
- You have strong experience in data analysis, large data sets and/or modelling, preferably in R or other programming languages like Python or C
- You have a strong motivation to implement applied research questions into theoretical models
- A strong willingness for interdisciplinary research
- German language is helpful, but not mandatory

What is awaiting you?

- An interesting task in an internationally renowned research institution
- The opportunity to cooperate in related research projects
- The opportunity to gain experience in the abovementioned research topics
- The occasion to build a network with scientists in interdisciplinary fields

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world of biodiversity

Salary and benefits are according to a full-time public service position in Germany (TV-H E 13). The position is a fixed-term post for 15 months. The contract shall start **January, 1st 2018** and will be limited **until March 31st, 2019**. 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 is in Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application until **November 13th 2017** by e-mail (**attachment in a single pdf file**), mentioning the reference of this position (**Ref. #11-17021**) and including a letter outlining your suitability and motivation, detailed CV, all transcripts and grades, contact details of two potential references, a summary of your Master's or Diploma thesis and, if available, a list of publications to the address below:

Senckenberg Gesellschaft für Naturforschung
Senckenberganlage 25
60325 Frankfurt am Main



E-Mail: recruiting@senckenberg.de with cc to hanno.seebens@senckenberg.de

For scientific enquiries please contact Dr. Hanno Seebens,
hanno.seebens@senckenberg.de.

In addition please indicate in your application how our job advertisement came to your attention.