

## Job offer Ref. # 11-19011

The Senckenberg Gesellschaft für Naturforschung (SGN), a member institution of the Leibniz Association, with almost 800 employees and its headquarters in Frankfurt am Main, conducts advanced natural history research with leading research institutions in six federal states. The Senckenberg Biodiversity and Climate Research Institute (SBIK-F) explores the interactions between biodiversity, climate and society.

For the EU-funded integrated and applied research project **Assessment of Cross-sectoral climate Impacts and pathways for Sustainable transformation (MAPPY)** - Conditional on funding - , we invite applications for a

### **Postdoc in vegetation/forest modelling (36 months, 100%)**

The project aims at developing scenarios and pathways for developing multifunctional landscapes across study regions in Belgium, The Netherlands, Germany and Spain, with a special focus on pollination ecosystem services. You will work in an international team with experts on pollination, crop and fruit tree yields, land use change scenarios, and climate and forest modelling. The project will be carried out in close collaboration with government and non-government stakeholders. The subproject here aims at developing scenarios of forest management under climate change, whereby forest also can also provide valuable habitats for pollinators within the forest and in the surrounding landscape. It is envisioned to adapt the Lund-Potsdam-Jena General Ecosystem Simulator (LPJ-GUESS) for the purpose of this project. Selected plant species with special value for pollinators might additionally be simulated with statistical species distribution modelling techniques and accounting for tree compositional and structural changes.

#### **Your tasks**

- Adapt the LPJ-GUESS model, including an existing forest management scheme, for the study regions
- Visit the study areas to get familiar with the regional vegetation, ecology and land use
- Develop scenarios of future forest management scenarios for developing multifunctional forests
- Derive estimates of the resource supply and habitat quality for pollinators in forests with alternative management schemes
- Together with the interdisciplinary team, estimate effects of forest management decisions on pollinator distribution and abundance as well as crop and fruit tree yields
- Closely interact with stakeholders and decision makers
- Disseminate results in scientific journals and more stakeholder-oriented formats

#### **Your profile**

- Master or PhD degree in Biology, Ecology, Environmental Modelling, Ecology, Geography or related subjects such as Environmental Physics
- Experience with computer programming, preferably in C/C++ and R
- Experience in ecological or environmental modelling
- Documented ability to publish scientific papers in international journals
- Research experience in interdisciplinary working environments
- Excellent written and oral communication skills in English
- Experience in applied projects and stakeholder interaction

## What is awaiting you?

- An interesting and relevant task in an interdisciplinary research team
- The possibility to build and extend your network with scientists at an international level and to attend national and international conferences
- Flexible working hours – annual special payment – company pension scheme – Senckenberg

Salary and benefits are in accordance with a public service position in Germany (TV-H E13). The contract shall start at **September 1<sup>st</sup>, 2019** and will be limited to 36 months. Senckenberg Research Institutes support equal opportunity of women and men, and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The duty station will be at the SBIK-F, Frankfurt am Main, Germany. Several meetings/workshops in Germany and across EU are expected. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application until **June 23<sup>rd</sup> 2019** preferably by e-mail (attachment in a single pdf file), mentioning the reference of this position (**Ref. # 11-19011**) and including a letter outlining your suitability and motivation, detailed CV, list of publications, and contact details of two potential references to the address below:

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Senckenberganlage 25  
60325 Frankfurt a.M.

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