An 18-month postdoc position focusing on insect population genetics is available in the Zoology Department of the National Natural History Museum, Luxembourg (MNHNL). The postdoc will work with Alain Frantz and Julian Wittische, and is funded by the Luxembourg Research Fund.

**PROJECT DESCRIPTION**  
The overall objective of the ongoing study is to better understand the connectivity of typical Luxembourg landscapes from the viewpoint of pollinators. We aim to understand whether urbanization and the structural diversity of agro-ecosystems have an impact on pollinator dispersal and, if there is sufficient landscape resistance to create isolation, which landscape features facilitate or hinder gene flow. We will use genetic data to make inferences about genetic structure and effective dispersal. We want to apply this approach for four target species in one large area with significant urbanization (Southwest of Luxembourg).

**RESPONSIBILITIES**

The postdoc will be responsible for the end of the project, which started in 2020, and will officially end in March 2024 (the position may be extended for a few more months). The fieldwork has already been done and genetic data has been analyzed for two species of hoverflies. However, genetic data for two additional species (SNP for one bee, microsatellites for one bee fly) is currently being created and the postdoc will be responsible performing the population (and potentially landscape) genetic analyses. The postdoc is expected to disseminate the results of the analyses for those species through presentations and scientific publications.

**REQUIREMENTS**

We seek candidates with an interest in entomology, notably pollinator ecology, and an in-depth knowledge of population and landscape genetics, shown by a proven track record of peer-reviewed scientific publications. The candidates must have experience in using R, as well as other software such as STRUCTURE and BAPS. Previous experience with advanced resistance modelling tools (e.g., ResistanceGA, SAMC) is a plus. Although it is mostly done, experience with laboratory work and quality control of genetic datasets is also a plus.

**WHAT WE OFFER**

We offer an 18-month contract with a competitive salary. The position is based in the Zoology research group at the MNHNL in Luxembourg City. The group is well funded and ambitious. As a postdoc you will benefit from easy access to your supervisors, but are expected to take on a leadership role relative to the more junior members of the team.

**APPLYING**

If interested, send a cover letter and an academic CV to [alain.frantz@mnhn.lu](mailto:alain.frantz@mnhn.lu), alongside the names and contact information of two references. The same email address can be used for informal inquiries. Starting date in November or December 2022. We will consider applications until the position is filled.