

The positions form part of a group of 15 PhD students now being recruited to the EU-funded Marie Skłodowska-Curie Innovative Training Network BIG4 (<http://big4-project.eu/>). The core of BIG4 is interdisciplinary, cutting-edge research on the diversity and evolution of the four largest insect orders: Hymenoptera, Diptera, Coleoptera, and Lepidoptera (Biosystematics, Informatics and Genomics of the 4 big insect groups). The program offers unique opportunities in terms of preparing students for an academic or a business career. The training will include secondment to other European labs in the network, and to small companies in the biotechnology and IT sector. The program also includes network-wide training events, and seeks to build student skills in creativity and innovation. The two PhD student positions advertised here will be formally associated with the Department of Biology at Lund University, Sweden (

<http://biology.lu.se/>

). The positions will be supervised by Niklas Wahlberg, who has recently been hired by Lund University as a Professor in Biological Systematics. The Wahlberg lab has a strong research tradition in Lepidoptera systematics and evolutionary biology (

<http://www.nymphalidae.net/>

). Position 1: Lepidoptera phylogenomics The successful candidate for this position will be using Next Gen sequencing approaches to elucidate the phylogenetic relationships of several species rich groups of Lepidoptera. The project will be particularly focussed on retrieving large amounts of genetic information from museum specimens using similar approaches to those used in sequencing fossils. The student will work in the lab developing protocols, do bioinformatics on resulting sequences and analyze data using phylogenomic methods. Apply here:

<https://lu.mynetworkglobal.com/en/what:job/jobID:67668/where:4/>

Position 2: Lepidoptera diversification dynamics The successful candidate for this position will be estimating times of divergence for selected groups of Lepidoptera, in particular Noctuoidea and Geometroidea, and elucidating factors behind diversification of those clades. The candidate will be using the latest algorithms for finding correlations between diversification rates and factors such as host plant use and historical biogeography. Apply here:

<https://lu.mynetworkglobal.com/en/what:job/jobID:67677/where:4/>

More information from Niklas Wahlberg (

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