



Molecular Ecology and Fisheries Genetics Laboratory



<http://mefgl.bangor.ac.uk/>

32 Month, full-time postdoctoral researcher in School of Natural Sciences, Bangor, UK

Forecasting biodiversity losses in Wallacea from ecological and evolutionary patterns and processes

We are seeking a highly motivated post-doctoral researcher in genomics and spatial analysis to join an exciting, NERC-funded project investigating the evolution and diversification of taxa on the Indonesian island of Sulawesi. The successful candidate will be one of two post-doctoral researchers working on this highly collaborative project with researchers at Bangor University, the University of Aberdeen and the University of Nottingham. The post-doctoral researcher will join the Molecular Ecology and Fisheries Genetics Laboratory (<http://mefgl.bangor.ac.uk/>) at Bangor University and spend a portion of their time at the University of Nottingham. The project will integrate state-of-the-art eco-evolutionary modelling with new and existing ecological and evolutionary data across eukaryotic taxa and soil microbes to deliver fresh understanding of the processes responsible for the generation, diversification, and persistence of Wallacea's endemic biodiversity. The project will generate a calibrated model (called ForeWall – Forecasting for Wallacea) which will forecast biodiversity dynamics across a suite of taxa under alternative future scenarios of land use and climate change. The Bangor post-doctoral researcher will collate and analyse existing spatial and genetic data for the Sulawesi biota and produce new genomic data for two damselfly genera represented, which are in the process of diversification on Sulawesi. Additionally, they will also investigate three groups of soil microbes, which perform a key ecosystem function (nitrification)



Candidates should hold a PhD (or near completion) in evolution, ecology or genetics and have research experience in evolutionary biology, molecular ecology or a related discipline, preferably in relation to population genetics of wild organisms. The post-doctoral researcher will be responsible for the generation and analysis of genomic data for Sulawesi damselflies and metabarcoding data for prokaryotes. They will collate and analyse existing genetic and spatial data for other

Sulawesi taxa in collaboration with the project's expert partners. Basic molecular genetic wet lab skills, genetic data handling/analysis skills and field working experience are essential, as is the ability to work collaboratively on writing and analysis for publication. Experience in bioinformatics, population genetic/phylogenetic analysis of genomic data, tropical fieldworking, geographic information systems, and knowledge of genetic analysis for eukaryotes and prokaryotes is highly desirable.

This is a fixed term appointment for 32 months. Starting Salary: £33,199pa (Grade 7). Preferred start date is 01/02/19 or as soon as possible thereafter. Applications will only be accepted via the on-line recruitment website (jobs.bangor.ac.uk).

See <https://tinyurl.com/yb4ofxne> for further details. Closing date for applications: 09/01/19.

For informal enquiries contact Alex Papadopoulos (a.papadopoulos@bangor.ac.uk)