



3 year, full-time postdoctoral researcher in School of Biological Sciences, Bangor, UK

The genomics of rapid, parallel adaptation to heavy metal toxicity

We are seeking a highly motivated post-doctoral researcher to join the Molecular Ecology and Fisheries Genetics Laboratory (<http://mefgl.bangor.ac.uk/>) at Bangor University as part of a new research team led by Alex Papadopoulos (<http://labadopoulos.co.uk>). The successful candidate will be integral to an exciting, NERC-funded project investigating the genomics of rapid, parallel adaptation to heavy metal toxicity in sea campion (*Silene uniflora*). *Silene uniflora* has rapidly adapted to heavy metal contaminated soils at abandoned mines within the last 200 years. Using state-of-the-art genetic/genomic analyses, quantitative genetics and experimental evolution studies, the project will explore the roles of standing genetic variation in the adaptive process, reveal the key signatures of rapid parallel evolution and investigate the potential for strong natural selection to drive reproductive isolation of populations at very small scales.



Candidates should hold a PhD in evolution, ecology or genetics and have research experience in evolutionary biology, molecular ecology or a related discipline, preferably in relation to adaptation and speciation genetics. The post-doc will be responsible for the generation and analysis of genomic (ddRADseq, RNAseq, whole genome re-/sequencing) and ecological/phenotypic data for population genomics and QTL analyses, supported by a dedicated research technician. Basic molecular

genetic wet lab and data handling/analysis skills are essential, as is the ability to work collaboratively on writing and analysis for publication. Experience of high-throughput sequencing library preparation and bioinformatics analysis of genomic data is desirable, but training in all aspects will be provided if necessary. Occasional weekend working to conduct tolerance experiments and to maintain plants will be required.

This is a fixed term appointment for 36 months. Starting Salary: £32,548 pa (Grade 7). Preferred start date is 01/12/17 or as soon as possible thereafter. Applications will only be accepted via the on-line recruitment website (jobs.bangor.ac.uk).

See <http://tinyurl.com/y8zrwbfw> for further details. Closing date for applications: 20/10/17.

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

About MEFGL Bangor

The Molecular Ecology and Fisheries Genetics Laboratory (MEFGL) is a leading research division of the School of Biological Sciences (SBS), within the College of Natural Sciences at Bangor University. The MEFGL represents one of Europe's largest centres focusing on population, species and community diversity of aquatic animals, with additional activities on prokaryotic and eukaryotic groups, including plants, fungi and microbes throughout terrestrial and aerobiological biomes.