



Georgia Ward - Natural History Museum

**Placement Details**

*Centre for Environment, Fisheries  
and Aquaculture Science (CEFAS)*

*Habitats Risk Assessor*

*1 month*

*DTP-funded*

The Fish Health Inspectorate is responsible for the authorisation of aquaculture production businesses (essentially fish and shellfish farms) in England and Wales. Legislation introduced in 2010 under the Conservation of Habitats and Species Regulations requires that licensing authorities undertake a habitats regulation assessment of aquaculture production businesses located in the marine environment to ensure that the farming activities are not contributing to any deterioration of the habitat subject to conservation measures. Recent changes to policy by the Marine Management Organisation which derogated shellfish farming from marine licensing requirements resulted in the responsibility for habitats regulations assessments falling to the FHI. As the legislation is retrospective the FHI has a backlog of around habitats regulation assessments to undertake on shellfish farming areas. This work placement will begin the process of undertaking the HRA's

Key Responsibilities:

- Develop a standard template for documenting HRA's using existing models (FHI assessment of likely impact; IFCA HRA's, NE HRA's).
- Identify shellfish harvesting areas in sites subject to European conservation measures
- Identify and prioritise the range and number of assessments required.
- Undertake and document HRA's according to priority established by the senior shellfish inspector involving collection and collation of data from various sources such as Starfish database, sanitary surveys, Natural England reports, RSPB reports

Mike Harrap – University of Bristol

**Placement Details**

*National Botanic Garden Wales (NBGW)*

*Temporary Scientific Officer*

*2 months*

*DTP-funded*



The placement will assist in developing a project at the NBGW aiming to identify the key plant species that are visited by honeybees throughout the year and determine why these plants are visited. Such work will expand our understanding of the factors influencing honeybee flower choice. It will also allow us to single out plants that are of critical value to honeybees across the year and inform management practices accordingly. The officer will also be involved in an independent public engagement project on bumblebees. He will develop interpretation materials and activities for the general public that help to inform them about UK bumblebee species and what they can do within their gardens to help them.

Key Responsibilities:

- collection and preparation of pollen and honey samples for analysis
- surveying the pollination environment surrounding the hives (what food species are flowering and where)
- conduct monitoring surveys of the bumblebee species within the botanic garden
- data evaluation
- preparing an interpretation plan for bumblebees
- writing and developing activities and trialling these within the botanical gardens

Ery Hughes – University of Bristol

**Placement Details**

GNS Science, New Zealand  
Junior scientist – Volcanology  
3 months  
1 month DTP-funded,  
2 months organisation-funded



The 1886 A.D. Plinian eruption of Tarawera, New Zealand, occurred with little warning. The SW portion of the fissure is still hydrothermally active today and recent studies have shown that Lake Rotomahana is emitting 6 W/m<sup>2</sup> of heat and 549 t/d of CO<sub>2</sub>. A recent pilot soil CO<sub>2</sub> flux and temperature survey of the craters on Mount Tarawera (the NE portion of the fissure) have shown areas of > 600 g/m<sup>2</sup>/day of CO<sub>2</sub> and elevated ground temperatures up to 30°C. A thermal IR survey will be conducted in the near future providing a temperature map of the whole fissure. This placement will involve conducting a full soil CO<sub>2</sub> flux and temperature survey of Mount Tarawera, guided by the recent thermal IR survey. The results will be processed to produce a map of the area and CO<sub>2</sub> isotopes will be used to assess the source of the CO<sub>2</sub>. The results will be compared with Lake Rotomahana, provide a baseline for future activity and provide insight into the pathways of degassing. If possible, sampling of the fumaroles will also be carried out.

Key Responsibilities:

- Collect data for soil CO<sub>2</sub> flux and temperature survey of Mount Tarawera
- Process soil CO<sub>2</sub> flux and temperature data, isotope and fumarole data
- Write up results

Tom Jenkins – University of Exeter

**Placement Details**

Temporary Editorial Assistant  
1 month  
Organisation-funded



The placement sits within the Biological, Earth and Environmental Sciences journals team within the Journals Editorial department. The main focus of our team's work is on managing the journals we already publish, working closely with Editors, Societies and Authors, as well as internal colleagues in Marketing, Production, Peer Review, Technology and Sales. We also concentrate on researching our market and pursuing new additions to our journals portfolio, as well as outreach work with researchers.

Key Responsibilities:

- Analysing a journal's citations pattern and other bibliometric data
- Producing a journal's annual publishing report and presentation
- Briefing a new cover design
- Making updates to online information
- Exploring articles for promotional activities
- Researching ideas to improve online functionality
- Fact-finding on competitor publishers' journals
- Contributing to researching an idea for a new journal
- Administration
- Preparing a presentation to a journal's Board
- Attending and organising internal and external meetings, and taking notes
- Shadowing colleagues in other Taylor & Francis Journal departments, such as Production and Marketing, possibly also colleagues in the Books division.