

## NC Internship Programme 2026



### **NC Programme**

National Capabilities for UK Challenges (NC-UK)

### **Project Title**

Environmental data visualisation project

### **Supervisors**

Jacky Chaplow (Lead) - UKCEH

Erin Corbett - JNCC

Emily Forbes - JNCC

### **UKCEH Site**

Lancaster

### **Project Overview**

The UK Centre for Ecology & Hydrology (UKCEH) is working with the Joint Nature Conservation Committee (JNCC) on a Defra funded data visualisation project. This internship offers the opportunity to contribute to the System-Level Indicators project, which aims to integrate and visualise diverse environmental datasets including chemical pollution, biodiversity and climate change amongst others.

### **Objectives**

- Investigate options for visualising complex data integrations across multiple ecological and environmental domains.
- Explore visualisations that capture interactions between climate, land use, biodiversity, and ecosystem services.
- Assess the suitability of different visualisation techniques for communicating to stakeholders.

### **Key tasks**

- Review existing indicator frameworks and visualisation methods.
- Work with UKCEH researchers to identify priority datasets for integration.
- Develop and present visualisation prototypes to demonstrate potential approaches.
- Document findings and provide recommendations for future integration into the tool.

## **Expected Outcomes**

### **Presentation of visualisation prototypes**

- The intern will produce a short presentation that showcases a set of prototype visualisations, demonstrating different ways the tool could present and communicate data.
- These prototypes should highlight a range of potential approaches, explaining what works well, what could be improved, and how each option might support different user needs.
- The presentation will be shared with the project team to help guide design decisions and inform the next stage of development.

### **Written report with findings and recommendations**

- A concise report will document the intern's process, key findings and reflections from exploring datasets, testing visualisation methods and reviewing relevant examples.
- The report should outline clear recommendations for how these insights could be integrated into the tool in future, including suggested design features, usability considerations and any technical implications.
- This document will act as a reference for the development team and support ongoing improvements to the tool.

### **The ideal candidate will have the following skills:**

- Students may be the later stages of your undergraduate degree or working towards a Master's.
- We welcome applicants from a range of disciplines, especially those linked to data, digital technology or environmental science.
- Confident using computers and digital tools - Comfortable navigating different software and picking up new tools quickly. Able to work in a tech-focused research environment.
- Experience with data analysis - Familiarity with handling, cleaning and interpreting datasets, able to spot patterns, summarise findings and communicate insights clearly.
- Some experience in coding - This could be in Python, R, JavaScript or a similar language. Enough experience to work through structured tasks, with support where needed.
- Experience with visualisation tools - Able to translate complex data into clear, meaningful visuals. Tools might include Python, Power BI or similar.
- Strong communication skills - Able to explain ideas clearly in writing and verbally. Comfortable presenting work and discussing concepts with others.
- Able to work independently but willing to ask for help - Good at managing your own workload and progressing tasks but equally happy to reach out when stuck, ask questions and work collaboratively with the team.

### **Extra Information**

The internship offers the applicant hands-on experience in environmental data integration and visualisation, building strong technical skills in analysis, coding and communication while working alongside researchers at UKCEH and JNCC

Further information on the current projects (System Level Indicator phase 1 and 2 and NC-UK Environmental Exposure Hub (EEx)) if needed.