

## Environmental Data Scientist/Hydrologist

**Location:** Wallingford, UK (Remote considered)

**Position:** Senior Consultant

**Salary Range:** £35,000 – £42,000

**Hours:** Full time (part-time considered)

**Closing Date:** 9 January 2026

**We have a fantastic opportunity for an ambitious, and collaborative individual to develop and progress their career as an environmental data scientist/hydrologist within our Wallingford office.**

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### About Wallingford HydroSolutions (WHS)

Wallingford HydroSolutions (WHS) is an **employee-owned** water and environmental consultancy, established by the Natural Environment Research Council in 2004. We are well known in our field as the developer of the **FEH** and **Qube** (formally LowFlows) software products. Our hydrological expertise and software product development is focused in our **Wallingford** office, whilst our consultancy work across the UK is primarily delivered through our Cardiff office.

Our mission is to provide cost-effective, sustainable tools and methods for application in water resources and flooding throughout the UK. As a small, employee-owned business, we provide a **personable and dynamic work environment** that rewards achievement. All members of our team have opportunities for personal development on competitive salaries and wider benefits, with an additional tax-free bonus linked to profit share.

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### The Role and Core Responsibilities

Working in our software development team you will play a key role in the development of our hydrological methods, modelling tools and software.

Our software implements national design standards to provide real-world solutions to the challenges of the seasonal behaviour of rivers, flood mitigation, and climate change. Products include:

- **Qube:** Our online water resource modelling platform, incorporating our rainfall runoff model CERF, provides national design standard methods for flow estimation in ungauged catchments.
- **FEH Flood Modelling Suite:** Our Flood Estimation Handbook (FEH) software products **ReFH2** and **WINFAP5** provide national design standard methods for flood estimation.

You will contribute to the development of methods and management of these products, with an initial focus on Qube. Working with the rest of the science team, you will identify opportunities and implement machine learning models to work alongside and inform development of our existing hydrological models.

## Core Duties

- Develop and manage hydrological methods in Qube, our national water resource modelling platform.
- Contribute to the development of FEH flood modelling tools (ReFH2, WINFAP5).
- Explore opportunities for machine learning to enhance current hydrological models and develop new ones.
- Support scientific research and implement findings into commercial software (including user interface design and testing).
- Liaise with regulators and users to ensure compliance and usability.

## Required Skills and Experience

The successful candidate will be highly ambitious and collaborative, possessing the following essential attributes:

- A good first degree (upper second or higher) in a **numerate discipline** (e.g., Hydrology, Environmental Science, Civil Engineering). A relevant postgraduate qualification is desirable but not essential.
- Strong coding ability in **Python** and/or **R**.
- Knowledge and experience in developing machine learning models and their application to environmental data.
- Ability to handle and process complex datasets including spatial/temporal datasets (e.g. NetCDF, ASCII).
- Strong communication skills for technical and non-technical audiences.
- Demonstrable experience in hydrology or water-related environmental science.

## Your First Year

In your first year you will:

- Develop your understanding of our hydrological tools; Qube (with related rainfall runoff model **CERF**), and our FEH flood modelling software suite: **ReFH2** and **WINFAP5**.
- Build Python modules and apply ML techniques to real-world hydrological problems.
- Become familiar with the UK regulatory framework for water environment activities.
- Liaise with UK regulators and collaborate with leading scientists at UKCEH.
- Produce concise, high-quality technical reports.
- Progress towards professional chartership (e.g., CIWEM).

Following your first year you will have the opportunity to take on increased responsibility:

- Contributing to the formulation of the science and commercial development strategy of our software products.
  - Identifying opportunities to develop our technical/software capability and diversify our services and products.
  - Acting as Project Manager on research and development projects.
  - Contributing to client proposals under guidance from senior members of the team.
  - Implementing aspects of the strategic marketing plan.
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## Benefits and Culture

WHS offers excellent opportunities for personal development on competitive salaries and a wide benefits package.

Benefit Category	Details
<b>Financial &amp; Ownership</b>	As an <b>employee-owned trust</b> , we provide <b>tax-free bonuses</b> and operate a separate performance-related bonus scheme. We have structured pay scales and clear criteria for promotion. We operate a share options scheme for staff at Principal Consultant grade and above (with 3+ years' service).
<b>Pension &amp; Leave</b>	Generous <b>40.5 day holiday allowance</b> (with buy/sell options). Company pension scheme with employer matched contributions of <b>5% of salary</b> (rising incrementally after 5 years' service).
<b>Health &amp; Wellbeing</b>	<b>Medicash health plan</b> (cashback on healthcare, virtual GP, counselling). Part of the <b>Cycle to Work</b> scheme. Annual ' <b>Environment Day</b> ' for environmental/educational volunteering.
<b>Professional Development</b>	Formal appraisal system with <b>personal development plans</b> . Access to <b>5 days</b> every year for targeted training and professional development. Financial support for professional membership.
<b>Working Environment</b>	Flexible working hours system. Good IT infrastructure with a reserved computing budget for each staff member. Annual staff events days (e.g., axe throwing, escape rooms).
<b>Office Location</b>	Wallingford office is a Grade II listed building located in a leafy, tranquil business park on the banks of the Thames. Features include an on-site restaurant, sports facilities (tennis, canoeing), and excellent transport links.

## How to Apply

Please email your **CV and covering letter** directly to [jobs@hydrosolutions.co.uk](mailto:jobs@hydrosolutions.co.uk) by **9 January 2026**.