

Additional Candidate Information Pack

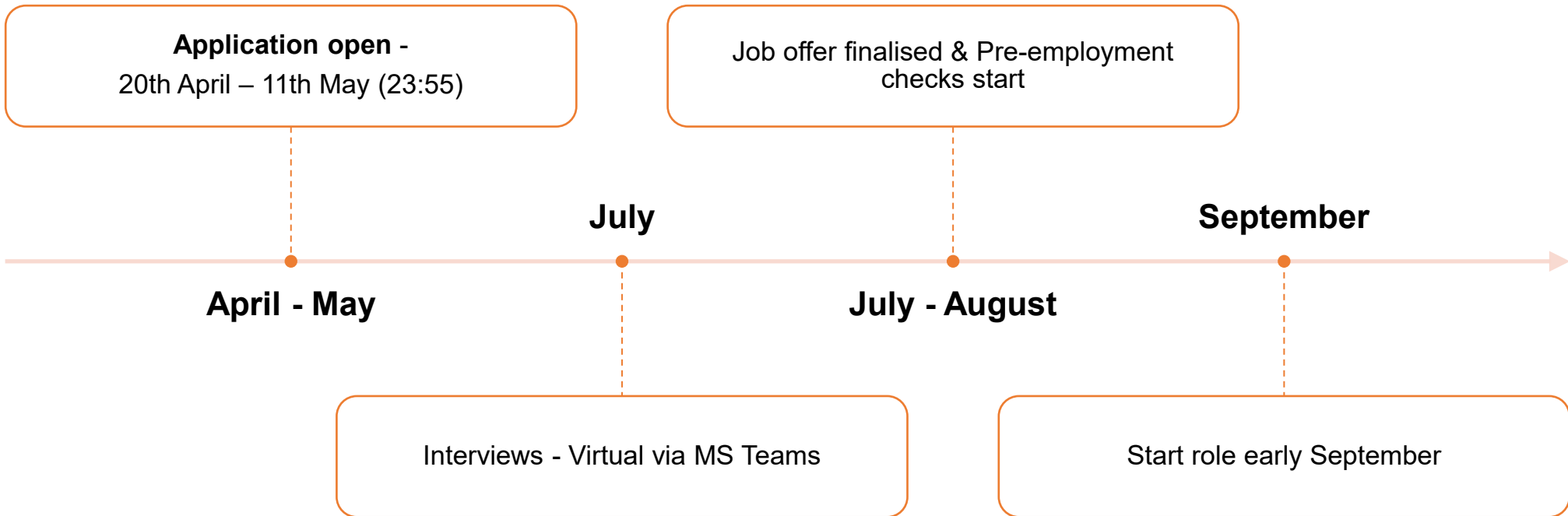
Data Analyst Apprenticeship (Level 4) Hydrologist

Date: 20/04/2026

Please think of the environment and do not print this pack unless necessary



Application Timeline 2026



- Application window will be open from 20 April to 11 May 2026 at 23.55.
- Once application window closes, we carry out a blind sift, which means we can't see your personal details, so assess purely on your responses to competency questions and qualifications. Your answers will be read and scored according to our scoring criteria and the top scoring candidates will be invited to interview.
- Candidates that have been progressed to interview will be notified and asked to select an interview slot.
- No offers will be made until the end of the interviewing process. If you accept an offer, our onboarding process will begin, which involves a range of official checks, including references and police check.
- Please note, this role does NOT qualify for sponsorship, so you should contact UK Visa and Immigration (UKVI) or visit <https://www.gov.uk/government/organisations/uk-visas-and-immigration>, where you can seek professional advice based on your personal circumstances about options for obtaining right to work in the UK.

Click the links below to learn more:



[Application Process – Environment Agency](#)

[Apprenticeship Information Site](#)

Data Analyst Apprentice (Level 4) Hydrologist

The role:

Our advert describes the day to day activities of the role, the team it operates within and the skills/experience we're looking for from applicants. This information should be read in conjunction with the job family role profile that we've provided.

The role of Hydrologist (Technical Officer) fits into our Technical and Scientific Services job family at Staff Grade 4.

So what is a Hydrologist?

Hydrology is the study of water in the environment. Water is one of the most important natural resources and although plentiful, is not always in the right place at the right time or of the right quality.

A hydrologist applies scientific knowledge and mathematical principles to solve water-related problems in society and provide environmental protection. To do this, they use a variety of hydrological data from different parts of the water cycle, such as river flows and levels, groundwater levels and rainfall. A hydrologist analyses this data to work out the best use of water supplies for various purposes, including: for cities or for irrigation; for controlling river flooding or soil erosion; for protecting water quality (such as cleaning up pollution); for planning long-term water storage reservoirs; for flood risk assessments and for flood/drought warnings.

In the Environment Agency, hydrologists typically focus on water resources, which means we are concerned with establishing how much water is available for different

users, such as public water supply, agriculture, industry, navigation and the environment.

With the reality of climate change, there is increasing pressure on water resources. In becoming a hydrologist at the Environment Agency, you will play your part in helping us tackle the climate emergency through our long-term goals, namely: a nation resilient to climate change; healthy air, land and water; green growth and a sustainable future.

Your responsibilities.

They will be varied, always rewarding and include:

- managing water resources in drought incidents;
- producing weekly and monthly water situation reports;
- managing water transfer schemes, including making decisions on whether to transfer water and for how long;
- using river flow and groundwater data from multiple hydrometric stations to assess how much water is available to end users in different catchments;
- modelling and forecasting river flows;
- quality assuring river flow data, ensuring it is fit for purpose;
- responding to consultations on abstraction licence and hydropower scheme applications.

Key to all this is building relationships with our customers and partners – within the Environment Agency and outside in society - who are affected by how water resources are managed in this part of England.

Data Analyst Apprentice (Level 4) Hydrologist *continued*

To provide you with the skills to do this, as well as learning 'on-the-job' in the workplace, you will complete the Data Analyst (Level 4) Apprenticeship, which will take approximately 15 months to complete from its start date.

You will be supported along the way by your line manager and a Talent Coach assigned to you by our Training Provider. You will be given 20% of your time as 'skills development training' to complete the qualification. This includes all teaching, learning and assessments, which are currently delivered remotely, although face to face workshops may be reintroduced at some time in the future. You'll be responsible for completing coursework on time, maintaining up to date evidence for your assessments and putting into practice what you're learning.

Data Analyst (Level 4) Apprenticeship

A Data Analyst collects, organises and studies data to provide business insight. They are typically involved with managing, cleansing, abstracting and aggregating data, and conducting a range of analytical studies on that data.

Through this apprenticeship, you will gain a good understanding of data structures, database systems and procedures and the range of analytical tools used to undertake a range of different types of analysis.

Successfully completing this apprenticeship is the academic equivalent of a foundation degree, a Higher National Certificate or the first year of an undergraduate degree.

During the formal elements of the apprenticeship and the training you receive 'on the job' you will learn how to:

- Identify, collect and migrate data to/from a range of internal and external systems
- Apply the Environment Agency's data and information security standards, policies and procedures to data management activities
- Perform database queries across multiple tables to extract data for analysis. Using business administration systems
- Use a range of analytical techniques such as data mining, time series forecasting and modelling techniques to identify and predict trends and patterns in data
- Perform data quality assurance
- Summarise, present and make recommendations from the results of data analysis
- Clearly define customer requirements for data analysis
- Develop skills in logical and creative thinking

In parallel with this you will be capturing evidence of how you are applying your new skills in the context of being a Hydrologist, for your 'Evidence Portfolio'. This portfolio, project work and a technical interview form part of the independent 'End Point Assessment' at the end of the apprenticeship.

Full details of the Apprenticeship Standard can be found here:

<https://www.instituteforapprenticeships.org/apprenticeship-standards/data-analyst-v1-1>

Data Analyst Apprentice (Level 4) Hydrologist *continued*

Qualification requirement:

5 GCSE's 5-9 (or equivalent) including Maths and English.

Have achieved (or expected to achieve) 96 UCAS points from a minimum of two A Levels or equivalent Level 3 qualifications, including A Level Maths (Grade A – C)

Why Join us?

We offer structured learning, mentoring from experienced specialists, and the chance to build technical and professional skills. You won't just be observing, you'll be contributing to meaningful work that keeps people safe, learning how to solve problems on the ground, and developing confidence through varied tasks and responsibilities.

It's a team where curiosity is encouraged, your development is prioritised, and every day brings opportunities to learn something new.

Further Information

Application and interview questions are competency based. Competencies are certain qualities which are important for this role. Competency (or capability) based questions are where we are looking for you explain an example (or examples) where you have demonstrated the competency. Your answers to the competency-based questions in the application will decide on interview selection.

Shortlisting will take place in the weeks after the advert closes with final decisions being communicated by the beginning of June. Due to the summer exam period, interviews will take place from mid-July onwards so as not to interfere with exam timetables.

For further information, please do contact Kelly West via Kelly.West@environment-agency.gov.uk

We look forward to receiving your application.

