# **Job title:** Principal Water Resources Scientist

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| Main purpose |
| As a member of the Water Resources and Environment Team, this role will support the Floods and Water Group on both consultancy and research projects that require water resources experience. Together with the rest of the team, it will help improve water resources planning in the UK and overseas, by using the latest approaches to develop water resources strategies for our clients, whether this is developing new hydrological, groundwater models or water resources modelling or undertaking water resource assessments or developing best value water resources plans. You will work with water companies, regulators, researchers and with our partner consultants to deliver projects on budget and undertake internal and external research projects. |

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| Main duties |
| * Develop, update, review and run hydrological, groundwater and water resource models in the UK and overseas; * Determine the impacts of climate change, regulation and legislation on water resource systems; * Identify drought risks and undertake drought assessments, including using the latest research guidance; * Use tools such as Pywr, Aquator and Modflow to support our clients and undertake analysis; * Develop supply and demand data that underpins water resource plans, including yield assessments, leakage analysis consumption data, using UK approaches; * Develop options that can meet the supply demand balance, such as new reservoirs, transfers etc and consider the impacts of these on water quality, yield and environmental metrics; * Contribute or lead on the development of water resource plans in the UK and internationally having project management and commercial responsibility, including short overseas trips; * Review existing plans and provide support to regulators, government and stakeholders reviewing those plans; * Identify areas of new research, for instance in machine learning, emulators and earth observation. Support the research and prepare peer-reviewed papers; * Work with colleagues from other scientific or engineering backgrounds in a highly collaborative environment and communicate findings efficiently to non-specialists; * Support company’s business development activities (e.g. bid decisions and proposal preparation) by contributing technical expertise. |

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| Job specific duties |
| * Support senior members of the team and mentor junior members of the team; * Manage commercial projects according to our quality management system; * Represent the company at meetings and conferences to describe the work we do and understand clients’ needs; * Help grow the water resources and environment team by learning new skills and adapting to new approaches as well as developing new techniques; * Be able to work unsupervised and be part of a team, both in an office and from home; * Provide high value, quality services to our clients. |

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| Group | Flood and Water Management |
| Reports to | To be confirmed |
| Responsible for | n/a |
| Date agreed | June 2025 |