



Mining
Remediation
Authority

Job Title:	Hydrologist
Department:	<i>Technical Services</i>
Reports to:	Hydrology Team Lead (Senior Hydrologist)
Direct Reports:	None
Location:	Activity-based onsite
Contract Type:	Permanent
Grade:	CA5

Main purpose of the job

- To provide hydrological and hydrometric services to support and advise the Mining Remediation Authority's operational activities, and its strategic mine water programmes.

Responsibilities

Specific

- To provide flow monitoring expertise, design and undertake, or oversee, flow monitoring surveys.
- To analyse and appraise flow monitoring data, as collected by the Mining Remediation Authority's contractors, and to identify data quality issues, and propose solutions.
- To specify flow monitoring structures (typically thin plate weirs, or flumes), and instruments, suitable for the continuous recording of flows. To work with project managers, consultants and contractors, to ensure new structures are installed with an appropriate balance of time, cost,

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and quality, such that appropriate monitoring data is collected, and that implications and any project risks are clearly communicated.

- To understand relevant standards (BS ISO, MCERTS etc.), and advise if current, or proposed structures sufficiently meet those standards.
- To investigate flow monitoring issues at operational mine water schemes and propose solutions for implementation by contractors.
- To conduct visits to field monitoring sites, to complete inspections, to install, maintain and check data logging equipment and collect ad hoc additional data, as needed on a prioritised basis.
- To oversee the management of equipment held in-house for conducting flow surveys, and to train and supervise others in the appropriate and safe use of the equipment.
- To contribute to the development of the environmental data management system (AQUARIUS) to store, assess, edit, grade and graphically present monitoring data, with an emphasis on continual improvement of quality and timeliness of data entry and processing of that data.
- To develop and maintain an expert knowledge of monitoring techniques and equipment, including flow monitoring structures, and advise the team in developing future strategies for monitoring.
- To provide advice to projects needing to apply for Environmental Permit to discharge water, including the provision of suitable flow datasets, for instance by generating a site-specific flow duration curve.
- To occasionally determine the relative impacts of both point and diffuse sources, by analysing flow and chemistry data at catchment scale, using appropriate source apportionment techniques, hydrological tools, and evidence based models.
- To occasionally support the Mining Remediation Authority's mine water projects where dispersion modelling work is required, primarily by engaging with specialist consultants. Also to present and discuss findings with regulators.



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- To occasionally support the Mining Remediation Authority's mine water projects where flood risk work is required, either by undertaking the work, or reviewing that of consultants. Also to present and discuss findings with regulators.
- To occasionally provide hydrologic input to the design of mine water treatment schemes, typically comprising settling ponds, and reed beds, as required.
- To occasionally contribute to commercial work as opportunities arise.
- To produce professional technical reports, on Hydrology and Hydrometry, for clients which may be factual, or may present interpretations of complex situations.
- To promote the Mining Remediation Authority as an expert by writing technical papers, giving presentations, or by other appropriate means.

General

- Act in line with the behaviours and values of the organisation
- Manage your own performance to be accountable for meeting individual, team and corporate objectives
- Act in accordance with the Scheme of Delegation and ensure propriety and regularity in the handling of public funds
- Actively demonstrate the Mining Remediation Authority's customer service standards expected of your role
- Follow and contribute to the improvement of operational and team processes and procedures
- Assist with the preparation and delivery of the team's objectives, budgets and financial records
- Identify opportunities and implement change leading to team development, system improvement and ensuring good value for money
- Maintain and develop positive stakeholder relationships in order to promote the Authority and assist it to meet its objectives



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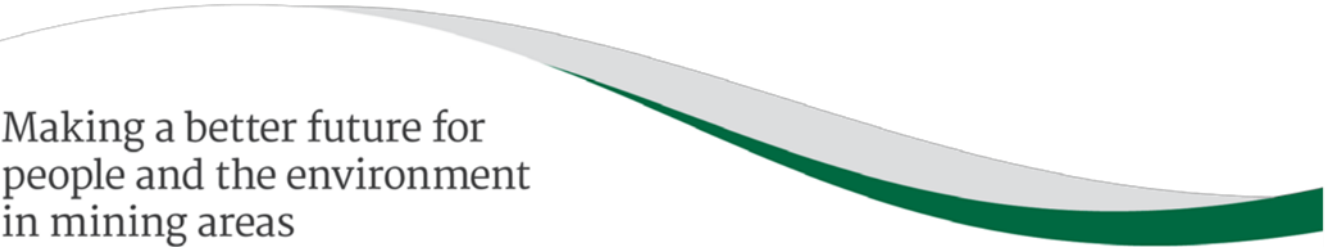
- Support research and development projects
- Ensure that the Authority's statutory responsibilities are effectively discharged
- Carry out any further reasonable request from your line manager

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Person specification

Job Title: Hydrologist		Department: Technical Services
	Essential	Desirable
Qualifications and Training	Degree in an Environmental based subject covering elements of Hydrology	MSc Hydrology, or similar higher degree. Membership of an appropriate professional body (e.g. CIWEM) Chartered Status or working towards
Experience and Knowledge	Supervision and management of contractors Practical experience of Hydrometry; i.e. measuring flows, and installing structures.	Significant post-graduate experience in practical Hydrology / Hydrometry Hydrological experience, including: Source Apportionment, Dispersion modelling, Flood Risk Assessment and catchment studies. Experience of GIS systems
Skills and Abilities	Ability to interpret flow monitoring data Use of hydrological software packages Ability to specify and install water monitoring instrumentation	Worked on constructed wetlands



	<p>Ability to work under pressure</p> <p>Excellent communication and interpersonal skills</p> <p>Excellent written communication and presentation skills</p> <p>Excellent IT skills</p> <p>Report writing skills</p>	
Other	<p>Frequent travel on business to attend meetings or visit monitoring sites, and occasional installation of data loggers. Approx. 7-10,000 miles per year.</p> <p>Occasional nights away from home, up to two times per month</p> <p>A full UK driving licence</p> <p>Possible future overseas working required</p>	



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