

**Job Title**: Geospatial Engineer

**Department:** Data & AI

**Reports to:** Principal Data Manager

**Direct Reports:** None

**Location:** Activity-based onsite

**Grade:** CA5

**Main purpose of the job**

As a member of the GIS team, you will support and deliver the ESRI and Open Source enterprise geospatial solutions. You will identify and understand the business needs and provide appropriate geospatial solutions to ensure users have access to services, applications and expertise to help protect the public and the environment from the legacy of mining.

**Responsibilities**

**Specific**

* Provide an effective and comprehensive geospatial service to support business objectives and requirements.
* Develop, implement and manage new and existing geospatial applications to support the Authority’s operational and commercial requirements.
* Proactively maintain a high level of understanding around new technologies and industry standards to make structured recommendations to ensure the authority are using the most appropriate solutions
* Automate the deployment of applications and geospatial processing functions using scripting tools and languages.
* Work with the wider teams in the Authority to ensure geospatial data and applications are simplified, updated and operating in the Cloud.
* Identify opportunities and develop new geospatial applications using available tools to support the implementation and delivery the geospatial strategy.
* Identify and capture user requirements to solve business problems through the development of geospatial solutions
* Promote and maximise the use of GIS within the Authority considering and evaluating appropriate options, to optimise return on investment.
* Ensure the management of geospatial data and metadata follows industry best practice and is in line with the data and information strategy.
* Support the Authority’s geospatial community by providing expertise and guidance to ensure users are aware of the GIS capabilities and are following recommended best practice
* Query and analyse data and produce maps and plans to a professional standard and lead the business in the self-service of these functions.
* Develop technical solutions that provide geospatial information and statistics, in the form of Business Intelligence dashboards or equivalent to support decision making

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

**Competencies Level**

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| **Seeing the bigger picture** - has an in-depth understanding and knowledge of how the role fits with and supports The Mining Remediation Authority’s business priorities | **3** |
| **Changing and improving** - responsive, innovative and seek out opportunities for continuous improvement | **3** |
| **Making effective decisions** - objective; uses sound judgement, evidence and knowledge to provide accurate, expert and professional advice in a timely manner | **3** |
| **Leading and communicating** - leads from the front and communicates with clarity, conviction and enthusiasm | **3** |
| **Collaborating and partnering** - creates and maintains positive, professional and trusting working relationships with a wide range of people, within and outside The Mining Remediation Authority, to achieve results | **3** |
| **Building capability for all** - has a strong focus on continuous learning for self, others and the organisation | **3** |
| **Achieving commercial outcomes** - has a commercial, financial and sustainable mind-set to ensure all products and services deliver added value and stimulate growth | **3** |
| **Delivering good value for money** - achieves a good mix of quality and effectiveness for minimal cost and to improve return on investment | **3** |
| **Managing a quality service** - plans, organises and manages their time and activities to deliver a high-quality customer experience | **3** |
| **Delivering at pace** - delivers timely performance, with energy, and taking responsibility and accountability for high-quality outcomes | **3** |

**Person specification**

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| **Job Title:** Geospatial Technician **Department:** Digital | | |
|  | **Essential** | **Desirable** |
| **Qualifications and Training** | * Degree-level qualification in Geographical Information System (GIS), Information Technology, Environmental, Data Science or related discipline, or equivalent demonstrable experience. | * Project Management skills |
| **Experience and Knowledge** | * Using the ESRI suite of Applications * Excellent knowledge of ESRI ArcGIS Server, Portal and Web App Builder * Developing and extending ArcGIS Pro/Desktop and ArcGIS Enterprise based software solutions * Experience of managing source code using Gitlab or similar software * Experience of FME workbenches * Experience using a playbook when building software applications * Data entry, data conversion, data maintenance and management of metadata. * GIS Analysis, GIS model building and scripting to manipulate, manage and extract results from spatial data. * Proven ability to learn new technologies * Experience of working to deadlines and managing a high and varied workload | * Use of multiple GIS applications and open source tools. * Systems design and communicating requirements to technical team members * Experience of Application development for mobile/tablet devices * Experience of working with a range of OS and bespoke GI datasets * Working with visualisation systems to manipulate, analyse and present 3D datasets * AGILE development methodology * Experience of working with Cloud technologies * Experience of working with AI technologies |
| **Skills and Abilities** | * Strong communication and interpersonal skills * Strong decision making, presentation and influencing skills * Ability to communicate technical issues to non–technical staff * Ability to present data using a range of visualisation techniques including strong cartographic design * Proficient in report writing, including project, analysis and design documentation * Able to solve complex geospatial problems through independent technical research * Deliver high quality outputs to tight deadlines | * Python, SQL, JavaScript * Understand and design data models and structure |
| **Other** | * Out of hours and weekend working may occasionally be required. Occasional site visits and event attendance including overnight stay across the UK |  |

 