Role definition

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| Job title: | GIS Engineer (B2) |
| Reports to: | Operations Manager/GIS Manager |
| Direct reports: | None |
| Business unit: | Baker Hicks | Location: |  Reading |

Summary

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| Baker Hicks provides a managed service for a major Defence Contractors Configuration Management function. Based on the clients’ sites, we provide support to Document Management & Administration / CAD / BIM / Surveying / Tooling with a team of approximately 70 people. As part of the growth of the service, we have identified the need for a GIS Engineer. The role will provide support to the Client GIS Team. |

Key objectives

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| * Utilities Baseline Review, to include analysis and reporting
* Development of 3D baselines, including facilities and utilities
* 3D visualisations to support Estates Strategy and other projects.
* BIM/GIS Integration projects
* UAV support and development, including processing and analysing imagery
* Preparation and support in migrating from ArcMap to ArcGIS Pro, including the implementation of the Utility Network and Branch Versioning
* Maintenance of the asset configuration baseline information within the corporate GIS System
* Cartographic production and configuration/improvement of Topographic & Utilities baselines
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Principal responsibilities and accountabilities

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| * Provide technical support to IS development and operational support teams where applicable to enable delivery to the business requirements
* Provide first line support to the system business users where applicable, and second line support to IS teams as requested
* Provide functional and technical support to the senior super user for the system
* Provide support and guidance to the wider GIS team, where required
* Support the Asset Information Strategy and System Requirements under pinning the Enterprise Asset Management Framework
* Assist in the assessment and setting of business requirements for system development activities
* Technically support, and where applicable deliver, development activities to provide necessary system functionality
* Provide reports and KPI's as required to customers, providing guidance and advice on data analysis
* Deliver operational services to all departments, including data management, data analysis and data exploitation
* Maintain a current level of knowledge of industry best practice and advancements, whilst championing the GIS platform throughout the business
* Contribute to all relevant standards and documentation
* Responsible for personal task management and decisions with the area of work, while supporting Senior Operations Specialist where required
* Act as the subject matter expert in terms of functionality and capability, supporting business areas in process development and system deployment
* Ensure that customer deliverables meet agreed quality, cost and timescales
* Maintain configuration control of data, while providing quality checking and assurance of baseline updates
* Maintain and promote high personal standards in environment, safety, health, security and quality
* Undertaking GIS data manipulation & analysis through the use of scripts & tools and building these as required
* Supporting the GIS manager, in line with the goals of the wider asset group (AMS, EDMS, CAD, BIM)
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Person specification

Qualifications and training

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| Essential –* Qualification in GIS or relevant subject or equivalent and demonstrable experience in a working environment
* GIS Management Qualification
* Advanced Certification in relevant software
* Membership of a relevant professional body
* Good Knowledge of IT including all MS Packages
* Good presentation skills and ability to manipulate data sets

Desirable –* Degree in GIS or relevant subject or equivalent and demonstrable experience in a working environment
* Postgraduate qualification in a relevant GIS subject
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Technical skills and experience

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| Essential –* A good working experience in the GIS discipline, preferably within an MoD or utility environment.
* Remote sensing and spatial analysis.
* Experience working with Assets Management Systems (AMS), Computer Aided Design (CAD) or Building Information Modelling (BIM)
* Knowledge of configuration management and change control.
* Advanced knowledge of desktop GIS software (preferably ESRI ArcGIS) in a working environment
* Management of utility network data in a versioned geodatabase environment
* Understand, interpret and exploit geospatial data.
* Working in the GIS discipline, preferably within a utility or defence environment.
* High quality cartographic production
* Must be willing to complete security clearance to SC level and potentially up to DV level.

Desirable –* Knowledge of appropriate programming language (Python, .net, VB) or use of FME.
* Knowledge of more specialised software including PIX4D, PointFuse and Autodesk
* Beneficial knowledge of MOD sites, business areas and utility and facility infrastructure.
* Geodatabase management
* 3D data management, analysis and presentation in GIS environment
* Advanced network analysis in a multi-service environment.
* Implementation of mobile GIS systems for data capture.
* Maintaining GIS data in a regulated environment
* Integrating CAD/BIM deliverables into a GIS environment.
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