

JOB DESCRIPTION



POST DETAILS	
Job Title	Principal Software Engineer
Section	Operations
Reports to	Operations Manager
Direct reports	Senior Developer, Developer, Graduate Developer.
Grade	5/£36,000 - £50,000
JOB PURPOSE	
<p>Lead the delivery of software development work as the Principal of a team responsible for the requirements, design, construction, integration, testing and maintenance of the Company's software products and customer solutions.</p> <p>Manage, maintain, innovate and continuously improve our development infrastructure.</p> <p>Lead and promote the DevOps mentality, processes and technologies across the business.</p> <p>Provide technical leadership, mentorship and line management responsibility for developers.</p>	
ROLE AND RESONSIBILITIES	
<p><u>Design & Development</u></p> <ul style="list-style-type: none"> • Lead the development of technical specifications for new projects, working with project teams involving internal and external stakeholders. • Lead the technical delivery on the design, development, testing and implementation activities required to deliver thinkWhere products and customer solutions. • Proactively manage the supporting cloud-native infrastructure, leading on the associated systems administration, information security, configuration management and disaster recovery procedures. • Build web-based tools, applications, microservices and solutions using various open source technologies. • Use various tools to orchestrate solutions, writing scripts, APIs and automation using Python. • Deliver business value through sound engineering methods and principles, ensuring platforms and software are built consistently with industry best practices. <p><u>DevOps, Systems Administration & Support</u></p> <ul style="list-style-type: none"> • Drive our DevOps culture, working in a highly collaborative way to push efforts to build, support and improve our tools for Continuous Integration, continuous deployment, automated testing and release management. • Proactively manage the cloud-native infrastructure, leading on the associated systems administration, information security, configuration management, business continuity and disaster recovery procedures. • Undertake resolution of customer technical support issues. <p><u>Resource and Performance Management</u></p> <ul style="list-style-type: none"> • Monitor and regularly report on the status and resource utilisation of our platform infrastructure, ensuring our KPIs are met. • Identify and report on risks on assigned activities, ensuring that risks are effectively controlled and reported to the Operations Manager as appropriate. • Participate in project reviews to ensure that project and individual task resources are reasonable, project risks are identified, and project delivery timescales are met. • Analyse management and performance information, identifying and acting on areas for improvement. <p><u>Technical and Product Strategy</u></p> <ul style="list-style-type: none"> • Actively contribute to the ongoing development of thinkWhere technical and product 	

<p>strategy and future product portfolio, technical standards, policies and procedures.</p> <p><u>Team and Company</u></p> <ul style="list-style-type: none"> • Develop, adopt and continuously improve the company standards for project management, software development and system administration in line with the company's quality management system (QMS). • Provide pre and post sales technical consultancy in collaboration with the Operations and Commercial teams. • Line Management, training, motivation and development of direct reports to ensure that the requisite skills and competencies are in place. • Stay abreast of industry trends, proactively sharing knowledge with colleagues. 	
PERSON SPECIFICATION	
Experience	<ul style="list-style-type: none"> • Experience through the entire software development lifecycle from inception through to build, production, release management and technical support. • Experience with software configuration and deployment management tools e.g. Terraform. • Experience with CI/CD, automating release and build processes using tools such as Shippable. • Strong familiarity with source code repositories and other tools, particularly Git. • Experience managing and developing AWS infrastructure environments. • Experience of developing and managing applications running in a Cloud environment providing operational support, troubleshooting, tuning, upgrade & optimisation. • Experience in design, development and delivery of modern web applications built on a Service-Oriented Architecture. • Development experience with some of the following technologies: Python, Flask, AngularJS, OpenLayers, JavaScript, Bootstrap, C#, ASP.Net, JQuery, SQL. • Ideally, development experience with some of the following middleware and database products: GeoServer, mapProxy, PostGRES, PostGIS
Skills	<ul style="list-style-type: none"> • Excellent and highly developed technical analysis, problem solving, design, development and system administration skills • Excellent written and verbal communication and organisational skills
Qualifications	<ul style="list-style-type: none"> • A degree in computer studies, software engineering, GIS or related discipline.
Competencies	<ul style="list-style-type: none"> • Ability to work independently with minimal supervision • Capable of hands on problem solving with ability to generate new ideas and solutions.
Sign-off	
Signature of postholder and manager, signifying agreement to the job description.	
Postholder:	Manager:
Name.....	Name.....
Signed.....	Signed.....
Date.....	Date.....