

# JOB DESCRIPTION



POST DETAILS	
<b>Job Title</b>	Senior Developer
<b>Section</b>	Operations
<b>Reports to</b>	Principal Developer
<b>Direct reports</b>	None
<b>Grade</b>	4/£28,000 - £44,000
JOB PURPOSE	
<p>To lead the delivery of innovative solutions using leading open source software technologies as a member of a team responsible for the design, development, integration, testing and maintenance of the Company's geospatial software products.</p> <p>To proactively assist with development of the Company's technical and product strategy and future product portfolio.</p> <p>To work as part of a team of specialist GIS developers in a fast-paced Agile environment.</p>	

ROLE AND RESONSIBILITIES
<p><b>Design &amp; Development</b></p> <ul style="list-style-type: none"><li>• As part of project teams, develop technical specifications for new projects to meet scope in agreed timescales with internal and external stakeholders.</li><li>• Lead with the design, development, testing and implementation technical activities required to deliver thinkWhere products, supporting technical infrastructure, and associated systems administration and disaster recovery procedures.</li><li>• Provide regular updates to Project Managers and Principal Developers on progress with assigned work commitments and alerting them to any new risks or issues.</li><li>• Undertake technical leadership role in the delivery of medium to large scale projects.</li><li>• Specify and implement web APIs, using RESTful principles, which are usable, performant and forwards compatible.</li><li>• Lead with the development of new features and products, and work alongside the test team to ensure that new and updated platforms, products and solutions are thoroughly tested for performance &amp; quality, are able to handle specified load, are robust and can be supported &amp; maintained over the long-term.</li><li>• Leverage automation and continuous delivery practices to produce high quality applications on a consistent schedule.</li><li>• Adopt and actively develop the use of Agile SCRUM technical practices including refactoring, unit testing and continuous integration and coach junior members of the team in their use.</li></ul> <p><b>Systems Administration &amp; Support</b></p> <ul style="list-style-type: none"><li>• Undertake system administration, maintenance and support activities required to ensure business continuity of products and technical infrastructure, including the efficient resolution of customer technical support issues.</li><li>• Lead with the build of continuous integration and deployment capabilities of the Product Development lifecycle.</li></ul>

#### Resource and Performance Management

- Monitor and regularly report on the status and resource utilisation of assigned project activities, providing regular updates to project stakeholders.
- Identify and report on risks on assigned project activities, ensuring that risks are effectively controlled and reported to the Project Manager, Product Owner or Scrum Master as appropriate.

#### Technical and Product Strategy

- Contribute to the ongoing development of thinkWhere technical and product strategy and future product portfolio, technical standards, policies and procedures.
- Contribute to the overall software development strategy for thinkWhere.

#### Team and Company

- Develop, adopt and continuously improve company standards for project management, software development methodologies, system administration and business management (BMS).
- Provide pre and post sales technical consultancy in collaboration with colleagues in the Operations and Commercial teams.
- Research and stay abreast of IT, software development and GIS industry trends, sharing knowledge with colleagues as appropriate.
- Support and identify key business development opportunities and initiatives including attending demonstrations, helping with preparation of bids and proposals for potential clients.
- Provide mentoring and support for less experienced colleagues.

### PERSON SPECIFICATION

#### Essential Experience

- Proven software development experience in designing, implementing and scaling high traffic, multi-tier web applications and web services.
- Expertise in developing for modern infrastructure and application environments.
- Expert with standard technical practices including unit testing, version control, source control, continuous integration, coding standards.
- Experience of working under Agile SCRUM methods of project delivery. In particular you must be proficient in iterative software development and understand the associated responsibilities and practices.
- Experience with the following development technologies: JavaScript libraries, JQuery, JSON, XML, Python, Flask, AngularJS, Bootstrap, OpenLayers.
- Experience with the following middleware and database products: GeoServer, MapProxy, PostgreSQL, PostGIS, NoSQL, DynamoDB.
- Experience of modern application environments; Containerisation (Docker), Amazon Web Services application products (EC2, Elastic Beanstalk).
- Experience in all phases of the product lifecycle including design, development, testing, release, support and documentation.

#### Desirable Experience

- Experience in design, development and delivery of geospatial web/software applications.
- Familiarity with open source software, including operation of open source solutions, integration of open source libraries or contribution to

	<p>open source projects.</p> <ul style="list-style-type: none"> <li>• Familiar with software testing, including, but not limited to system testing, exploratory testing and user acceptance testing.</li> <li>• Experience with the Atlassian tools Jira and Confluence.</li> </ul>
<b>Skills</b>	<ul style="list-style-type: none"> <li>• Excellent and highly developed technical analysis, problem solving, design, development and system administration skills.</li> <li>• Excellent written and verbal communication and organisational skills.</li> </ul>
<b>Qualifications</b>	<ul style="list-style-type: none"> <li>• A degree in GIS, information systems, software engineering, computer studies or related discipline.</li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• Ability to work independently with minimal supervision.</li> <li>• Capable of hands on problem solving with ability to generate new ideas and solutions.</li> </ul>

**Sign-off**

Signature of postholder and manager, signifying agreement to the job description.

<p><b>Postholder:</b></p> <p><b>Name</b>.....</p> <p><b>Signed</b>.....</p> <p><b>Date</b>.....</p>	<p><b>Manager:</b></p> <p><b>Name</b>.....</p> <p><b>Signed</b>.....</p> <p><b>Date</b>.....</p>
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