

# 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>   | up to £45k depending on experience |
| JOB PURPOSE  |                                    |
| 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 and customer solutions. |                                    |

| 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 the software design, development, testing and implementation activities required to deliver thinkWhere products and customer solutions</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..</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.</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> <p><b>Resource and Performance Management</b></p> <ul style="list-style-type: none"> <li>Monitor and regularly report on the status and resource utilisation of assigned project activities, providing regular updates to project stakeholders.</li> <li>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.</li> </ul> <p><b>Technical and Product Strategy</b></p> |

- 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..
- 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.
- Provide mentoring and support for less experienced colleagues.

**PERSON SPECIFICATION**

|                       |   |
|-----------------------|---|
| <b>Experience</b>     | <ul style="list-style-type: none"> <li>• Experience across all phases of the software product lifecycle including design, development, testing, release, support and documentation.</li> <li>• Experience in design, development and delivery of modern web applications built on a Service-Oriented Architecture.</li> <li>• Experience of working under Agile SCRUM methods of project delivery and iterative software development.</li> <li>• Expertise with standard technical practices including unit testing, version control, source control, continuous integration, coding standards.</li> <li>• Experience with some of the following development technologies: Python, JavaScript libraries, JQuery, JSON, Flask, AngularJS, Bootstrap, OpenLayers.</li> <li>• Ideally, development experience with some of the following middleware and database products: GeoServer, MapProxy, PostgreSQL, PostGIS.</li> <li>• Experience of modern web application environments, Containerisation (Docker), Amazon Web Services application products (EC2, Elastic Beanstalk), CI/CD (Shippable).</li> </ul> |
| <b>Skills</b>         | <ul style="list-style-type: none"> <li>• Well 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 software engineering, computer studies, GIS 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.

|                     |                     |
|---------------------|---------------------|
| <b>Postholder:</b>  | <b>Manager:</b>     |
| <b>Name</b> .....   | <b>Name</b> .....   |
| <b>Signed</b> ..... | <b>Signed</b> ..... |

**Date**.....

**Date**.....