JOB DESCRIPTION

POST DETAILS	
Job Title	Developer/Senior Developer
Section	Operations
Reports to	Principal Developer
Direct reports	None
Grade	£20,000-£44,000 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. To proactively assist with development of the Company's technical and product strategy and future product portfolio. To work as part of a team of specialist GIS developers in a fast-paced Agile environment.

ROLE AND RESONSIBILITIES

Design & Development
- As part of project teams, develop technical specifications for new projects to meet scope in agreed timescales with internal and external stakeholders.
- 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.
- Provide regular updates to Project Managers and Principal Developers on progress with assigned work commitments and alerting them to any new risks or issues.
- Undertake technical leadership role in the delivery of medium to large scale projects.
- Specify and implement web APIs, using RESTful principles, which are usable, performant and forwards compatible.
- 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 & quality, are able to handle specified load, are robust and can be supported & maintained over the long-term.
- Leverage automation and continuous delivery practices to produce high quality applications on a consistent schedule.
- 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.

Systems Administration & Support
- 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.
- Lead with the build of continuous integration and deployment capabilities of the Product Development lifecycle.

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

	• open source projects. • Familiar with software testing, including, but not limited to system testing, exploratory testing and user acceptance testing. • Experience with the Atlassian tools Jira and Confluence.
Skills	• Excellent and highly developed technical analysis, problem solving, design, development and system administration skills. • Excellent written and verbal communication and organisational skills.
Qualifications	• A degree in GIS, information systems, software engineering, computer studies or related discipline.
Competencies	• 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:**

Name…………………………………..

Signed…………………………………

Date………………………………….. | **Manager:**

Name……………………………………

Signed…………………………………….

Date……………………………………... |