

# Digital Engineering Manager

<b>Employer:</b>	East West Railway Company
<b>Location:</b>	London Initially then Milton Keynes from March 2020
<b>Basis:</b>	Permanent
<b>Role Summary:</b>	Design, develop and test digital subsystems, analyse requirements, identify required work and estimate development tasks. Perform in conjunction with software development team to ensure system meets operational requirements.

**Team dimensions:** Reporting directly to the Engineering Director

## A little bit about us:

East West Rail is a new direct connection, linking communities between Oxford and Cambridge, including Bicester, Milton Keynes and Bedford by rail.

Oxford, Cambridge and the communities in between are renowned for their vibrant economy, educational excellence and scientific innovation. They deliver growth and prosperity both locally and for the whole country; connecting these two cities and the communities in between is crucial to the social and economic future of the region.

East West Railway Company was set up to accelerate the delivery of the East West Rail infrastructure and passenger services, bringing faster journey times and easing pressure on local roads.

We were set up by the Secretary of State for Transport in 2017 to do things differently. We aim to innovate, positively disrupt, and challenge the status-quo, leading to quicker and more cost-effective project delivery, and an improved experience for passengers and the communities we serve.

As we build our team, we're looking for people with the right skills and mindset so that we can innovate, positively disrupt and set new industry standards. Whether you've been working on some of the world's most exciting rail and infrastructure projects or can inspire us with your ideas and expertise from other sectors, we want to hear from you.

## Responsibilities and accountabilities

- Maintain and operate all GIS related products, manage all components of the system database and design and ensure achievement of all phases for project and assist in planning
- Coordinate with various departments and prepare all project objectives and analyse work of all projects, and recommend solutions to resolve all issues in the project
- Monitor working in all public forums and monitor budget
- Prepare and draft proposals for various training programs for GIS hardware and software and evaluate performance of staff for same and ensure optimal delivery
- Design and maintain control points for all geodetic data and utilize all registered geographic data to determine efficient quality control standards and provide subject matter expertise
- Monitor all GIS associated technology, recommend improvements and assess all related protocols and functionality
- Forecast and evaluate all present trends, anticipate all issues and develop efficient procedures to reduce all errors
- Engage with stakeholders to solicit, agree and deliver new GIS requirements
- Contribute to the development and implementation of the Digital Engineering and Asset Information Strategies
- Ensure that consistent and valid spatial data is maintained and shared within EWR and the supply chain
- Continuously strive to innovate and develop digital engineering practices to introduce new ways of working and increase benefits realization from the exploitation of data
- Apply advanced GIS skills, principles and knowledge to undertake and evolve the GIS/spatial data service provision

## Team dimensions

- You will be reporting directly to the Engineering Director, you will also be managing any contractors or consultants that join the project within your remit.
- Given the early stage of the project, it is likely that the nature of the role may evolve as the project progresses. It is also possible that other ad-hoc activities and duties may be required

## Experience and skills

- Strong written and oral communication skills
- IT skills, including the use and manipulation of complex databases and spreadsheets
- Knowledge of specialised software packages such as ArcGIS or ESRI
- Numerical skills with the ability to analyse data and statistics
- The ability to translate client requirements into working solutions
- Familiarity with Ordnance Survey mapping and digitising techniques
- Presentation skills
- Project management skills
- Self-motivation and a proactive attitude to work
- Attention to detail

- Teamworking skills and the ability to work independently
- The ability to work well under pressure
- Ability to communicate effectively, both orally and in writing, with people at all levels across the organisation and externally
- Ability to build effective working relationships, with people at all levels across the organisation and externally and to influence
- Ability to plan, implement and manage activities to deliver customer requirements.
- Attention to detail and accuracy
- Highly driven with problem solving skills with the ability to innovate
- Experience of providing spatial data systems service provision
- Collaborating with IT and vendors to deliver a sustainable, reliable and cost-efficient service provision
- Experienced in transmitting and sharing data between systems
- Experienced in the life-cycle management of IT projects
- Exploiting emerging technologies to support innovation and promote benefits realisation
- Experience of working in a project management environment in a large, complex, safety focused and regulated organisation(s), having multiple complex interfaces

## Education and qualifications

A degree or postgraduate qualification in a relevant subject such as;

- Computer sciences
- Geographical information systems
- Geography
- Math or statistics
- Software engineering
- Surveying
- Urban planning

## What we offer:

- Competitive base salary
- Up to 20% bonus based on individual and company performance
- Up to 12% employer's pension contribution
- 25 days holiday a year (exclusive of the 8 bank holidays) + up to 5 days to buy
- Life insurance
- Employee Assistance Programme
- Perks platform with hundreds of discounts and freebies
- On-the-spot and annual awards
- Advanced learning and development programmes
- Great work-life balance and flexible working opportunities
- Enhanced family-friendly policies
- Exceptional IT tools

## Join the team!

Please send your resume and a covering letter explaining why you are interested in the role and meet the above experience requirements to: **[recruitment@eastwestrail.co.uk](mailto:recruitment@eastwestrail.co.uk)**