

Graduate Software Engineer

Oxfordshire, work-from-home (any location) possible. £25k - £30k. 4 day working week with the possibility for the position to be part time on a pro rata basis.

Emergent Design

Emergent Design is a small company that produces industrial production monitoring and automation QA systems for factories across Europe. We manage suppliers who provide mechanical and electronic design and production services along with on-site service engineers. We generate the specialist software required to operate the systems in-house, with a strong emphasis on image processing and modern UI design. We develop on and design for an open source linux-based stack. Our primary development languages are modern C++ for back-end code and Dart for user interfaces. We are entering a period of expansion and are seeking team members who are keen to play a part in shaping a growing company.

The Role

This is a role for a graduate interested in developing project management and client-facing support skills while also gaining a substantial amount of technical experience working on software stacks for complex industrial instrumentation. You will be collaborating with electronic and mechanical engineering teams from our partner companies as well as our experienced in-house software engineers.

Depending on your strengths and interests you may specialise in client support and training, generating technical and commercial documentation, project management, management of contractors and service operations, system architecture design, research and development, data analysis, or a combination of the above. You will also be involved in collaborative design work and bug hunting and foster strong working relationships with partners and clients across Europe.

Candidates should have graduate level programming experience, good communication skills and a desire to learn. You can expect to shadow an experienced team member as you learn about our projects, software and processes. Emergent is keen to help the right candidate to gain a wide range of skills and experience so that you progress rapidly to taking on more responsibility and autonomy within the company.

As Emergent is a small company, you may be expected to work on tasks outside of your core focus at times. The role is primarily home-based at present, though there is the possibility of more traditional office working at your preference. The majority of customer support activities will be home or office based, working on remote systems, though you may need to travel for site visits on occasion.

Necessary skills

- Object-oriented programming experience
- Modern C++ using the standard template library
- Familiar with git source control
- Debugging software
- Good communication skills
- Ability to work independently, manage your own time and set your own goals as part of a larger team

Experience and Training

You will have the opportunity to gain experience, with guidance from an experienced engineer, in areas such as:-

- Technical project management
- Business administration
- Client and end user liaison
- Specification generation and negotiation
- System architecture design
- Contractor and supplier management
- Site support
- Data analysis and reporting
- Linux command-line usage
- Writing technical and user documentation
- Client and contractor training
- Working on collaborative and cross-disciplinary projects
- Application of mathematical skills in fields such as statistics, trigonometry and 3D geometry, vector calculus and linear algebra, optimisation, and neural networks
- Image processing
- Reading, understanding and developing code from academic papers
- Developing for, and working in, industrial environments
- Coding for hardware

Working environment

- Self guided work - significant amount of autonomy expected
- Working primarily from home (potential to move to home/office split at your preference)
- Flexible working hours
- Potential for visits to assembly houses (UK-based)
- Potential for site visits (various European locations)
- 28 days annual leave in addition to public holidays
- Four day working week (potential for a shorter working week on a pro-rata basis)

Take a look at our website at <https://emergent-design.co.uk/> to learn more about us.

If you're interested in the position then email justen@emergent-design.co.uk and introduce yourself. Please include your c.v. and specify the role you're interested in.