

## Software Engineer

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Company: Curtis Instruments

Location: United Kingdom

Category: computer-and-mathematical

Curtis **Software Engineers** are responsible for designing, developing and installing software solutions. You will work with hardware design and development, requirements definition, testing and documentation of software systems, including embedded applications support.

Engineers working on our hybrid engine projects will be developing hybrid control algorithms to work with internal combustion engines, including cranking, generation and boost.

This is a hybrid position, requiring flexibility to go into the office three times a week, or as needed. Our UK Engineering Center is located in North East England.

### **What you'll do:**

Independently design, code and debug embedded software for real-time control applications.

Work closely with diesel engine manufactures to integrate Curtis motor controllers onto diesel engines.

Lead hybrid projects to ensure hybrid requirement functions are captured, developed and validated.

Work with motor control engineers to realize effective and efficient real-time control applications.

Follow software development cycles including software requirements capture and verification of software to those requirements.

Carry out unit testing of functions.

Engineering support of product development and continuation team.

Work with electronic design team to optimize logic and microprocessor circuit implementations.  
Follow and document engineering procedures.

Assist other departments in the resolution of design related problems that arise during production.

**What you'll need to be successful:**

Bachelors or Masters degree plus 3 years experience in embedded, real-time software

Proficient in real-time software programming, using high level languages including C++

Good working experience in Matlab/Simulink, including real time algorithmic development

Proficient user of emulators, in-circuit testing and software debugging tools/techniques.

Knowledge of Simulink and experience of auto-code generation preferred.

Familiarity with model based algorithmic development.

Demonstrated ability to develop designs to meet project costs, performance and schedules.

Demonstrated knowledge of control and feedback systems for power and motor control.

Demonstrated knowledge of microprocessor circuits and implementation.

Demonstrated knowledge of software analysis, documentation and design of experiments.

Knowledge of good engineering practices.

Excellent interpersonal skills, including mentoring capabilities.

Effective verbal and written communication skills.

PC literate with experience in MS Office and databases.

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