

Senior Engineer - Control

Full Time, Permanent, Immediate Vacancy

Drive System Design Ltd (DSD) is a highly respected and innovative engineering business operating in a variety of sectors including automotive, off highway and renewable energy. They provide a full product engineering and development service supported by expert knowledge of state of the art design and analysis tools ensuring the highest quality service is delivered to customers, many of which include the world's premium car manufacturers.

Based in Leamington Spa, Warwickshire DSD employs close to 100 people including c. 20 based at their Tech Centre in Detroit, USA. Demand for their expertise and services continue to increase as demonstrated by their year on year growth over the last 5 years. This growth has enabled significant investments in people and facilities e.g. DSD is now the largest independent transmission test facility in the UK. DSD will grow further with a substantial part of its business now in electrification.

The role involves the specification, design, development and calibration of driveline and transmission control systems predominantly for multispeed transmissions and hybrid technology. Candidates will ideally have some prior experience in automotive powertrain systems and or with control system development. The successful applicant will become an integral part of the busy Transmission Control team.

Outline of Role and Responsibilities

It is expected that candidates will have a good understanding of mechanical and electrical systems and relevant experience in the following areas:

- A sound understanding of vehicle systems and vehicle powertrain
- Requirements capture for automotive control systems
- Model based design techniques for automotive applications
- Knowledge of MATLAB\Simulink\Stateflow for algorithm design
- RTW/Embedded coder for auto code generation
- Test rig based development and calibration
- Functional vehicle development and calibration
- Specific responsibility for complete software delivery or individual modules will be assigned for each project depending on prior experience
- Technical and commercial management of projects as well as generating and maintaining customer relationships
- Compliance with and development of Drive System Design software standards
- Presentation and communication of technical project elements to client companies
- Prior experience in the use of calibration tools such as CANape or INCA would be advantageous
- An understanding of the requirements of fulfilling ISO26262 and/or ISO13849 would also be advantageous
- A high level of aptitude is expected along with the ability to determine innovative and robust solutions to the numerous control challenges which present themselves during a typical project. Evidence of this capability should be demonstrated by the candidate.

Minimum Requirements

- Considerable experience of automotive control development
- 1st Class Degree in Mechanical Engineering or Electrical Engineering
- Fundamentals of automatic transmission operation and the control thereof
- High standard of algorithm modelling

Apply with CV and covering letter, including as much information as possible to Catherine Comber via the email above
(DSD Ref 42)