



Job Title – Graduate Engineer - Electrical

Date position required:	September 2019
Salary:	Competitive
Benefits:	Pension, 28 days holiday (+bank holidays), salary sacrifice
Site:	hofer powertrain UK, 2, Titan Business Centre, Spartan Close, Warwick (CV34 6RR)
Applications required by:	26 th April 2019
Application format:	CV and covering letter

hofer powertrain – Part of the hofer AG (Group)

hofer, established in the 1980's, is a privately owned, German based, automotive powertrain production design and supply company employing over 850 people within the Group. We work with many of the world's automotive OEMs, Tier 1 suppliers and automotive technology centres and have numerous powertrain components in production; including hofer designed electric motors and hybrid modules through to full dual clutch transmissions.

With numerous offices across Germany, Austria, Italy, America, China and the UK, hofer has a truly global presence allowing comprehensive support for powertrain system design and supply projects across all vehicle sectors.

- System supplier for complete automotive powertrain systems.
- Full electrical and mechanical capability from clean sheet through to quality accredited production.
- Specific sites setup to support many global OEMs.
- Production supplier for many of the current and future advanced powertrain systems and components.

hofer powertrain UK are a Warwick-based subsidiary of hofer AG, designing transmissions; e-motors; power electronics and control systems/software for UK-based automotive OEMs and Tier 1 suppliers. hofer's UK powertrain design capability is partnered with a new transmission and hybrid/electric driveline production facility currently under construction in Solihull.

As part of hofer group's global growth, and the continuing expansion of hofer powertrain UK in Warwick, we are seeking graduate engineers to work on our exciting powertrain programmes, with opportunities to become involved in all elements of the design and development process across all aspects of the automotive powertrain systems we design.

The successful candidates will work within the Controls/Software, E-motors, Power Electronics, Mechanical Design, Project Engineering or Test & Development functional areas as most appropriate to their experience/qualifications and career aspirations.

The key functions of the role:

Technical project delivery of powertrain systems into OEM and Tier 1 customers, supported by hofer's highly experienced engineering teams.

Take personal responsibility for delivering engineering tasks into multiple projects/programmes, working independently or as part of a large team – including across numerous geographies.

Develop key communication; reporting and presentation skills to represent hofer in front of our customers and build key client relationships.

Balance high-quality delivery of technical tasks with hofer's commercial responsibilities and commitments, maintaining high levels of customer satisfaction.

Understand high-level project plans and milestones, and the context within which technical tasks support the overall business and project activities.

Liaison with, including travel to, other hofer sites and customer locations to support ongoing project needs including participating in design and concepting reviews, build events, test support, customer presentations, etc.

Detailed component and/or task responsibility will vary depending on the most relevant functional area(s) you are placed with, but could include:

- Model-based software development for powertrain control systems (including transmissions or e-motors), and/or simulation of vehicle powertrain systems.
- Test & Development of powertrain systems, on-rig and on-vehicle.
- Electromagnetic design and thermal simulation of e-motors using a variety of FEA tools.
- Electronics and Power Electronics development of both high and low voltage automotive systems, including motor controllers/inverters.
- Requirement elicitation and decomposition.
- Verification and test specification.
- Management of project related engineering activities.

Qualifications / Education / Experience required:

Degree or equivalent in Electrical/Electronic/Mechanical/Automotive Engineering or related discipline to 2:1 or above.

Demonstrable work experience in an engineering environment.

Solid understanding of the challenges engineers must overcome in realising their designs.

Other beneficial attributes:

Familiarity with MATLAB/Simulink.

Component design experience and familiarity with CAD/FEA tools.

Electronic circuit design and test.

Practical, hands-on, experience with automotive components, assemblies and vehicles.

Understanding of current trends and challenges within the automotive industry especially around electrification.

Some coding capability / experience (C, C++, Python, Java etc).

Knowledge of German or other European languages.

Personal attributes:

Excellent attention to detail with good planning skills and an overriding desire to succeed.

Clear methodical approach to problem-solving challenges.

Strong communicator, both verbal and in the written word.

Highly self-motivated and independent, with a willingness to seek guidance and involve others whenever required.

Remain focussed under pressure, familiar with working outside their normal comfort zone.