



## Graduate Electrical Engineer

OR Consulting is a multi-award-winning building services consultancy, focused on the engineering of low carbon buildings. We specialise in developing tailored design strategies for unique projects, particularly within the cultural and heritage, residential, education and commercial sectors.

If you have a passion for sustainable engineering, are keen to learn and are committed to personal achievement and success, then joining OR could be for you. We will provide you with the training and skills required to pursue a varied and exciting career in sustainability, building services and environmental engineering.

OR Consulting is an established, growing practice with 15 employees located within Central London and a small office in Cardiff. We are a friendly, supportive team providing holistic sustainable engineering solutions in mechanical, electrical and public health building services.

You will work on a wide range of projects across multiple sectors, enabling you to gain experience on a varied and challenging mix of work, both in the office and on site. You will be given responsibility early on, allowing you to undertake tasks independently, giving you the opportunity to directly contribute to the delivery of projects. You will work alongside senior engineers who will actively encourage your involvement and contribution within the team.

We offer the opportunity for career progression alongside a competitive salary, workplace pension scheme and structured training targeted towards gaining Chartered Engineer status.

### Activities

- Analysis of electrical requirements of the buildings central plant, lighting and small power to determine loads and incoming power requirements.
- Development of high and low voltage electrical infrastructure design.
- Lighting, small power and fire alarm design, including co-ordination with the architecture and interior design.
- Prepare and issue detailed design drawings in Autodesk Revit, suitable for presenting to Clients and other design professionals and contractors.
- Communicate technical points, thoughts and ideas to other staff, professionals and Clients by verbal and written means.
- Compile complete tender packages for project procurement.
- Undertake environmental analysis including: energy performance analysis, MEP system simulations, Building Regulations Part L compliance, daylighting, sun/shade and glare control.
- Develop and maintain a broad understanding of sustainability issues related to the built environment including application of BREEAM, PassivHaus and other benchmarking systems.
- Develop 3D building models, including the use of dynamic building energy simulation and Autodesk Revit software.
- Design electrical distribution and perform cable sizing calculations using Amtech software.
- Model general and emergency lighting installations using Dialux software.
- Illustrate engineering concepts and prepare written reports.
- Attend site meetings and carry out site surveys. Monitor and report on the quality and progress of work on site.
- Engage with quantity surveyors to inform the project cost plan. Produce designs to work within the project budget constraints.
- Work within a team environment co-ordinating work and liaising with team members.
- Co-operate with and support other teams and employees in a pro-active way to ensure their objectives are met.
- Undertake graduate training and self-development to achieve Chartered Engineer status.
- Undertake continued professional development to maintain proficiency and competence.
- Act in a professional manner with all members of the design team.
- Contribute to the development of the business.



#### Personal Specification

- A Bachelor's / Master's Degree in Electrical / Integrated Mechanical & Electrical Engineering
- Good communication skills
- Team player
- Demonstrate experience in the fundamentals of electrical engineering design
- Versatile, diligent, creative and resourceful
- Demonstrate a willingness to learn
- Interest in design