

System Modelling Specialist

Founded in 1987, Metrol are global leaders in the innovation, development and operation of wireless down-hole systems, using acoustic, electromagnetic and inductive telemetry.

Metrol's understanding of this technology and its application plays a major part in our success. Our products are already used by energy companies throughout the world during exploration and production, where the data and control provided allows significant advances in efficiency and safety. Metrol's commitment to research and development has ensured that the company stays at the forefront of downhole communications and the successful introduction of a range of new products has resulted in company growth.

We are located in the Kirkhill Industrial Estate in Dyce, but operations are global, and we have offices in Dubai, the United States and other worldwide locations.

With a family business culture, we aim to create and provide a working environment that promotes from within, encourages training and development and allows and trusts individuals to maintain a work-life balance.

Benefits:

The role comes with a competitive salary and benefits package including:

- Culture that promotes teamwork and empowering individuals to make a difference
- Challenging role with on-the-job training, working as part of an expert team
- 33 days holiday with additional holidays for long service and long service awards
- Company Pension contributions
- Private Healthcare and Life Insurance
- Cycle to work scheme
- EV lease scheme

The Role:

As part of our ongoing growth, we are actively recruiting a System Modelling Specialist to support the operations team.

The successful candidate will be involved in performance modelling and simulating of Metrol wireless telemetry systems used in downhole oil/gas wells and to provide system parameters to Operations department. The role involves working closely with the operations job planning teams to design and deliver downhole telemetry solutions to the customer.

Main Duties:

- Responsible for complex signal performance modelling using COMSOL for R&D and Operational planning.
- Review and develop techniques in the modelling process to improve accuracy and ensure simulations reflect real world performance
- Generate reports and present signal performance model results
- Where possible, create standalone applications for specific models.
- Ensure that all local and Metrol Safety procedures are adhered to at all times at all locations.
- Take part in internal and external training, seminars and client meetings as required.
- Carry out specific work-related tasks for Operations & Technical departments.

Required Skills & Experience:

- BSc or Beng (Hons) in relevant Science or Engineering discipline
- Experience with multi-physics modelling, ideally using COMSOL. Knowledge of AC/DC COMSOL modules preferable.
- Understanding of Electrical theory
- MATLAB and Python experience
- Expert with Excel
- Ideally, understanding of well construction
- Project orientated with experience of working to timelines and meeting deadlines

Location:

Our Main Office and Workshops are in the Kirkhill Industrial estate in Dyce, Aberdeen.

Apply by email with your full CV to Vacancies-Technical@metrol.co.uk