



Job Specification

For: Lecturer - Applied Maths & Engineering Science

Ref: VR/01277

Job Description

Chatham, Kent
£47K + Excellent Benefits

Unique opportunity for a Lecturer to deliver engineering science and applied mathematics to degree level at a prestigious training facility in Chatham, Kent. This niche role offers the opportunity to teach and guide motivated, military students based at the Royal School of Military Engineering. Teaching or military background is not essential, although applicants with either will be considered. Teacher training can be provided.

£47K + excellent benefits to include 30 days holiday (+ bank holidays), contributory pension scheme, private healthcare and ongoing professional development.

About the role:

The Lecturer in Maths and Engineering Science will teach primarily engineering principles, including the corresponding mathematical techniques, up to degree level, and be willing to develop towards teaching Laplace and Fourier.

In addition, trade level engineering principles and mathematics is taught to specific trades within the school, such as electricians, refrigeration engineers and fitters.

Applied Mathematics and Engineering Science subject areas include:

- Arithmetic / Algebraic Techniques (Fractions, Indices, Ratio, Percentage, Linear/Quadratic/Simultaneous Equations)
- Areas and Volumes (regular/composite/irregular/Pappus)
- Trigonometry (Pythagoras/Trig Ratios, Plane Trig, Solid Trig)
- Calculus (Differential and Integral Techniques)
- Physics (SI Units, Density, Fluids, Calorimetry, Ideal Gas Laws)
- Mechanics (Frameworks, Linear / Angular Motion, Inertia, Machines, Projectiles, Simple Harmonic Motion, Centripetal Force)
- Strength of Materials (Stress/Strain, Simple Bending/Torsion, Beam Deflection)

The successful applicant will be committed to teaching within a modern learning environment and making full use of the technologies and methods available. With small class sizes there is plenty of opportunity to develop a student-centered and problem-based learning environment.

Essential

- Degree level qualification incorporating Applied or Engineering Mathematics, or extensive Industrial experience
- Level 5 or above Teaching Qualification e.g. DET / PGCE / PGCHE or willingness to acquire one within three years of commencement

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- Experience in teaching the relevant subject area, or can demonstrate that they have this potential at interview
- Knowledge of relevant safeguarding legislation & requirements, or acquire this knowledge promptly after taking up post

The company is an expert in the design and delivery of innovative teaching, learning, assessment and training design for the defence, construction and engineering sectors. We support employers, training providers and awarding organisations to provide a stimulating environment to help individuals and organisations achieve their goals.

The company has a long and very successful partnership contract based at the Royal School of Military Engineering, Brompton Barracks. We provide an important training capability to the army and the UK that has allowed the Royal Engineers to:

- Design and manage the build of Camp Bastion in Afghanistan from a desert, to a 26km² base able to accommodate 28,000 personnel as well as a significant airport
- Design and manage the build of the Nightingale hospitals to provide resilience to the NHS infrastructure during the COVID pandemic. The London Nightingale was built, able to accommodate 4,000 beds within 10 days
- Provide resilience for the UK by working with the Environmental Agency to support the Civil authorities in reaction to national flooding events

The company is committed to creating a diverse and inclusive workplace. All applications will be considered. We provide support through our Mental Health First Aid and Coaching and Mentoring schemes. We are accredited Investors in People, ISO accredited, and we have a Gold Award in the Medway Healthy Workplaces Programme. We have won several Health & Safety awards and recently won a Princess Royal Award for one of our employee learning and development programmes.

Armed Forces Covenant – We offer guaranteed interviews to military veterans if they meet the selection criteria.

Closing date for applications – 9th February 2024.

Compiled by : **Fiona Louch**
Compiled on : **01/23/24**

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