



HIGH
SPEED
RAIL

NATIONAL COLLEGE FOR
HIGH SPEED RAIL

JOB DESCRIPTION

Job title: Sessional Lecturer



Role specific information

Power

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Power for the rail industry. This will include the design, construction, maintenance and repair of overhead line equipment, the supply and management of electricity to the rail network, related health and safety, and the design of electrification systems and components

Train Operations

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Train Operations. This will include application of regulations, standards, network codes etc., the use of historic and real-time data, interpretation of financial reports and all aspects of train operation systems.

Command Control and Communications

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Command Control and Communications. This will include all aspects of legacy, modern and future rail signaling and train control systems, commissioning and certification processes, ICT hardware, software and technical architecture and telecoms systems.

BIM/Information Management

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in BIM/Information Management. This will include fundamentals of information management, industry standards for BIM, the Common Data Environment, the Concept of Big Data and BIM maturity levels, supply chain management and data security.

Rail Health and Safety

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Rail Health and Safety. This will include the crucial importance of safety and security on the rail network, the principles of safe by design, the relationship between health and welfare strategies and safety in the work place, the relevance of standards, policies, regulations and guidelines in the UK rail industry, and required training programmes related to health and safety.



Project Management

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Project Management. This will include the project life cycle, project governance, project stakeholder management, scope management, schedule management, resource management, contract management and procurement, and project controls.

Systems Integrations

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Systems Integrations. This will include system engineering approaches, RAMSS analysis, documentation hierarchy, software and tools to support systems engineering, BIM and interface management.

Leadership and Management

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Leadership and Management. This will include operational management and approaches, business development and improvement tools, business planning techniques, commercial awareness and leadership strategies.

Rolling Stock

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Rolling Stock. This will include the design of traction and rolling stock, maintenance and repair of rolling stock, and related health and safety.

Track

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Track. This will include Track design, Track construction, Track repair and maintenance, the impact of alignment, hydro dynamics and geotechnics on track and related health and safety.

Lean Manufacturing

The purpose of this role is to develop and deliver education and training for learners specialising in or studying modules in Lean Manufacturing. This will include lean manufacturing operations, quality control, problem solving, continuous improvement strategies and environmental impact.

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| Job title: | Sessional Lecturer |
| Hours | To be agreed |
| Salary | £30 per hour |
| Location: | Birmingham - Lister Street, Aston or Doncaster - Carolina Way, Doncaster May include regular travel between the 2 sites and to other business premises |
| The location, hours of work and duties could be varied according to the needs of the service. | |

1. Context

The National College for High Speed Rail is a brand new incorporated FE College that is being established to train the next generation of the rail workforce. Covering the breadth of the rail industry from design to people experience, construction, maintenance and operations, the College will train learners from the age of 18 in Higher Apprenticeships and higher education programmes. Learners who have attended the National College will gain skills that enable UK employers to support the development and running of HS2 and future high speed rail projects at home and around the world.

The college's vision is to pioneer technical excellence, setting new standards for collaboration and diversity in what will be a major growth industry for the UK in future years. We opened to students in September 2017, with two main hub sites in Birmingham and Doncaster and a network of 'spokes' via partner arrangements across the UK.

Being involved at the beginning of this exciting journey, we are able to offer you a unique opportunity to work in a dynamic environment with the College growing and evolving, providing excellent opportunities for career development and the scope to influence the future of the further education sector

2. Job purpose

To help deliver high quality teaching and learning, whilst contributing to preparing teaching and learning and engaging with the rest of the curriculum team in planning and assessing as appropriate.

3. Reporting relationships

Reports to Senior Engineering Curriculum Leader

4. Accountabilities

- To help prepare teaching and learning to meet industry specification standards
- To provide high quality teaching that promotes high level opportunities for learning.
- To assess learner work in a timely manner and mark learners work.
- To provide constructive feedback to learners both in writing and verbally
- To provide advice and guidance on progress and set learning targets
- To work with awarding bodies, university partners, industry organisations, professional bodies, employers, other FE providers, trailblazing groups and government organisations as necessary.
- To produce high quality learning resources
- To engage with the rest of the curriculum team in planning and assessing as appropriate.
- To participate in curriculum development.
- To provide feedback on learners' progress to stakeholders using appropriate software packages e.g. CANVAS (VLE)
- To engage in the development and delivery of ILT.
To provide colleagues with timely and accurate information e.g. learner attendance, punctuality, progress etc.
- To actively support and promote the college E Learning strategy.
- To embrace the full potential of learning technologies in order to ensure that all staff and learners have access to a diverse range of learning resources and experiences.
- To proactively support curriculum management.
- To proactively engage with quality assurance processes.

5. Other

- You are liable to undertake such other duties as may be reasonably required of you commensurate with your grade at your initial place of work or at any other college site.
- The College is committed to safeguarding and promoting the welfare of children and vulnerable adults and expects all employees and volunteers to share this commitment.
- To participate in the College's appraisal process and to undertake and deliver staff development and training
- The College aspires to be rated as Outstanding by Ofsted and for our customers to receive excellent customer service in their interactions with the College. All staff members are expected to contribute to this aspiration.

Person specification

This person specification lists the competencies expected

(E = Essential criteria, D = Desirable criteria)

| | Sections | | |
|--|---------------------------------|---|---|
| | Skills, knowledge and aptitudes | <ul style="list-style-type: none"> • Knowledge and understanding of the rail industry and/or specialist subject. • Working knowledge of curriculum development, professional development and assessment | <ul style="list-style-type: none"> • E • D |
| | Experience | <ul style="list-style-type: none"> • Experience within the rail sector and/ or related sectors. • Working in an education or training environment • Assessing knowledge and skills. | <ul style="list-style-type: none"> • D • D • D |
| | Qualifications | <ul style="list-style-type: none"> • Relevant technical qualifications appropriate to the level being taught e.g. level 4 if teaching at level 3 • Teaching / Instruction qualification or willingness to obtain • Assessor qualifications e.g. A1 / IQA | <ul style="list-style-type: none"> • E • E • D |
| | Personal attributes | <ul style="list-style-type: none"> • Strong communicator who is able to manage time efficiently and can deal with stakeholders at differing levels. • Self-confidence and stature to represent NCHSR in a variety of settings. • Ability to work effectively as an individual and as a team member to achieve targets. • A problem solver who looks to develop and deliver solutions • An understanding of and commitment to equality and diversity. | <ul style="list-style-type: none"> • E • E • E • E • E |
| | Special requirements | <ul style="list-style-type: none"> • Able to meet challenging deadlines when necessary • Able to travel independently between college sites and other external venues. • NCHSR is committed to safeguarding and promoting the welfare of children and young people and expects all staff to share this commitment and individually take responsibility for doing so. | <ul style="list-style-type: none"> • E • E • E |