UNIVERSITY OF BIRMINGHAM | BCRRE

RAIL AND RAIL SYSTEMS PRINCIPAL ENGINEER
DEGREE APPRENTICESHIP

JOIN THE RAILWAY SYSTEMS ENGINEERING AND INTEGRATION MSC PROGRAMME OR THE RAILWAY SAFETY AND CONTROL SYSTEMS MSC PROGRAMME THROUGH OUR DEGREE APPRENTICESHIP SCHEME

Our aim at the University of Birmingham is to support participants with the practical knowledge and understanding required for industry wide leadership across a range of rail specialisms. Our Rail and Rail Systems Principle Engineer Level 7 Degree Apprenticeship (RRSPE), allows learners to gain an MSc in Railway Systems Engineering or Railway Safety and Control Systems funded by the Apprenticeship Levy.

As a Russell Group University our programmes bring together world-class research and cutting-edge facilities to produce exceptional results.

WHY CHOOSE THIS PROGRAMME?

- For almost 50 years, the Birmingham Centre for Railway Research and Education (BCRRE) at the University of Birmingham has maintained a strong reputation for high-quality, relevant and challenging railway engineering education.

- Flexible mode of delivery to suit both learner and employer needs through a blend of online and on-campus delivery in the form of intensive, week-long blocks of study supplemented by tutorials, team exercises and visits.

- Our three-year part-time programme combines postgraduate-level study alongside development of the knowledge, skills and behaviours necessary for success in the workplace.

- Successful completion of the programme will support a learner's application for Chartered Engineer status.

- Fully levy-funding compliant with advice and guidance from our Degree Apprenticeship team.

OVERVIEW

At the Birmingham Centre for Railway Research and Education, we are leaders in railway science and education. With over 130 academics, researchers and professional support staff, we deliver world class research and thought leadership within railways, and offer an expanding portfolio of high-quality education programmes. Our close relationships with the rail industry mean that our research and teaching draws in real-world situations and by studying in depth what is happening across the world's railways, we prepare our learners for the challenges of the future.

The Railway Systems Engineering and Integration pathway on our RRSPE programme places an emphasis on a systems approach to railways, appreciating that each element of a system affects others. Upon successful completion, the apprentice will have a well-rounded understanding of the complexity of the railway system and how to deal with this in the context of the rail industry, the employer and the apprentice's own discipline. Our MSc in Railway Systems Engineering and Integration is world-renowned; indeed, where a country has a railway, there is likely to be someone who has participated in this programme.

The Railway Safety and Control Systems pathway provides learners with a deep and robust understanding of cutting-edge approaches to managing safety and associated issues in transport systems and related projects. These also emphasise safety-thinking alongside systems-thinking, especially in the context of a highly regulated rail industry.

SUCCESS AND IMPACT

The University is currently offering Degree Apprenticeship programmes with a number of partners across both the private and public sectors, in business, local government and the NHS against the following Apprenticeship Standards:

- Level 6 Digital and Technology Solutions Professional
- Level 6 Rail and Rail Systems Senior Engineer
- Level 7 Rail and Rail Systems Principal Engineer
- Level 7 Senior Leader

The University is continuing to develop further programmes against a number of additional Apprenticeship Standards and our offer for partners continues to grow.

GUIDANCE FOR EMPLOYERS AND EMPLOYEES

The programme is fully levy-funding compliant. Talk to our Degree Apprenticeships team to understand what this might mean for you.

TRY A DIFFERENT APPROACH

GETTING IN TOUCH

To learn more about engaging with the University please visit:
www.birmingham.ac.uk/partners/degree-apprenticeships

Or email us at: **degreeapps@contacts.bham.ac.uk**

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