

Network Rail-Sponsored PhD Studentship

Fully-funded PhD opportunity at the Institute of Railway Research (IRR) on:

CV4GPR – Computer Vision for Ground-Penetrating Radar

The University of Huddersfield's Institute of Railway Research (IRR), in collaboration with Network Rail, is inviting expressions of interest for an industry-focused PhD opportunity.

Why This Research Matters?

Collecting the data is not enough —we need to understand what it means to inform engineering and business decisions. Ground-penetrating radar (GPR) can be complex to interpret and requires alignment to infrastructure.

Project Aim

You'll apply modern machine learning and computer vision methods to process and interpret ground-penetrating radar (GPR) of real tracks.

Industry Impact & Novelty

Computer vision techniques can allow not only automation of manual GPR interpretation but also extract further information. You will develop AI skills within an exciting field, applying this to real world data.



Studentship Benefits

- ✓ Tax-free stipend of **£22,000 per year for three years**
- ✓ **Network Rail** sponsorship and industrial collaboration
- ✓ Access to **real railway engineering** data and technical expertise
- ✓ Hands-on research experience on real-world infrastructure challenges
- ✓ Open to UK and international students

Expressions of interest with CV must be submitted by 31 October 2026

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