Industrial Doctorate Centre in Systems

www.bristol.ac.uk/eng-systems-centre/idc/

Developing future leaders for a complex world

Through bespoke professional development programme, research activities and a unique taught programme in Systems the Research Engineers are learning:

- to integrate across diverse research traditions
- how to apply systems models to major nterdisciplinary research programmes, with novel content beyond the boundaries of current knowledge

Economics

process Development

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Sci

Natura

Applied Science

II and telecommunications

Scientific Equipment

- how to practice Systems Thinking in the real world
- to deliver a purposeful Systems Trasportation and Logistics performance through people and processes
- to be leaders of complex research projects in industry.

More than 40 UK-based and international companies currently sponsor the EngD in Systems programme. A key benefit from the application of systems thinking to engineering projects is to be able to move from innovative conceptual designs to real-world engineering solutions more rapidly, and achieve this in complex environments (organisations).

Utilities Utilit

Components

Business and professional Services

Architecture

Construction

Technology Deredonies

Building an interdisciplinary

Through collaboration with industrial sponsors the centre draws upon the wide disciplinary backgrounds of our REs, Academic and Industrial Supervisors. This has led to a multidisciplinary research portfolio of 80 EngD in Systems research projects.

LEARNING TOGETHER

TOSHIBA

TWI

Ch Systems







original

 Designing for synergy to improve the performance and reduce unintended consequences in complex systems

 Integrating engineering perspective (e.g. safety, quality and sustainability) in the design process

> Applying systems modelling for interdisciplinary knowledge exchange, decision support and stakeholders engagement.