

# Through-life Engineering Services Specialist

Managing high-value engineering  
assets for optimised availability  
and cost



**Level 7 apprenticeships**

[www.cranfield.ac.uk/tss](http://www.cranfield.ac.uk/tss)



# Deploy superior through-life support capability

Our Level 7 Through-life Engineering Services Specialist Master's Degree Apprenticeship provides delegates with the knowledge, skills and behaviours to maximise revenue through the provision of services that keep products operating effectively, rather than investing in the design, manufacture and delivery of original equipment (hardware). This allows organisations to extend the life of their high-value assets, reducing costs whilst also working towards achieving sustainability and ESG (environmental, social, and governance) goals.

The programme has been designed in collaboration with industry partners with a focus on addressing and finding solutions to real and current industrial challenges.

## Developing your workforce

This Level 7 Apprenticeship has been developed for organisations that require their workforce to engage in matters related to through-life management, support, asset management, servitisation and/or maintenance. Organisations that are through-life engineering services dependent will benefit from this programme, through the upskilling of employees in a range of roles such as engineers, business administrators, logistics, finance and commercial practitioners.

### Benefits to your employees

Learners will gain in-demand skills and earn a postgraduate qualification with the UK's leading University.

- Bridge the gap in supporting complex equipment and critical systems.
- Develop specialist skills aligned with your organisation's goals.
- Drive innovation and deliver improved results through:
- Business process analysis and improvement,
- Complex project management,
- New product and service development,
- Operational efficiency and obsolescence management.

### Benefits to your organisation

The skills gained by your employees on this course will contribute to increased competitive advantage for your organisation and integrated approaches in the development of superior through-life support capability.

- Upskill your workforce: Strengthen engineering and management capabilities.
- Reduce staff turnover: Invest in your talent and empower skilled individuals.
- Flexible learning: Minimal disruption to your business.
- Expert instruction: Industry professionals ensure real-world application.

Develop superior **through-life** capability.

Designed to **meet the training needs** of industry.

Project conducted in your workplace solving **real-life challenges**.



## Modules

Managing Assets and Value
Through Life Business Models and Servitisation
Diagnostics and Prognostics
Operational Availability and Risk
Optimising Whole Life Cost and Performance Management
Through-life System Effectiveness
Information Management
Leadership and Change Management
Group Project
End point assessment

## Course details

<b>Start date</b> October	<b>Cohort age range</b> Typical cohort age 24-60
<b>Duration</b> Two years part-time	<b>Delivery</b> Typically delivered over two years part-time comprising of eight modules, alongside a group project, and an End Point Assessment.
<b>Location</b> Cranfield campus	<b>Fees</b> £17,000 Eligible for apprenticeship funding.
<b>Award</b> MSc Apprenticeship	
<b>Accreditations:</b>	

“This course has really helped me progress my career. When I applied for TRL, one of the things they were really interested in was the more systems-thinking approach and thinking bigger picture – skills I really honed via the course. This new mindset has not only helped in understanding the detail (such as root cause analysis) but also working more strategically, which is what my current position is all about.”

**Kate Greenslade**, Consultancy Lead, Behaviour, TRL The Future of Transport (Through-life System Sustainment MSc, 2022)

**Cranfield University works with over**

**1,500 businesses and governments  
based in over 40 countries**

**These organisations include:**

Abcam,  
Alsftom,  
Babcock International Group,  
BAE Systems,  
BMT,  
Croda  
Eurofighter,  
GAMBICA,

GSK  
HVM Catapult Centres,  
IMechE,  
Ishida Europe,  
Leonardo,  
Lloyds Banking Group,  
Lockheed Martin  
MOD - Ministry of Defence,

Network Rail  
NICKLIN Transit Packaging,  
Rolls-Royce,  
Si2Partners,  
Strategy2Results,  
Thales,  
UV Light Technology Limited.

"The course equips students with the tools to create and implement relevant through-life support solutions, needed throughout the life cycle of complex systems. By discussing a wide range of methodologies through taught modules, research and critical reasoning, the course is of great value in developing an understanding of availability and reliability requirements, as well as the techniques to sustain and improve complex system performance and longevity. Such an approach brings significant advantages for personal, personnel and asset development, coupled with operational, environmental and safety resource savings, benefiting all system stakeholders."

**Robert Mills-Hicks,**

Through-Life Support Engineer, BT (Through-life Systems Sustainment MSc, 2022)

## Cranfield University

Cranfield is a specialist postgraduate university that is a global leader for education and transformational research in technology and management. We are focused on the themes of aerospace, defence and security, energy and sustainability, environment and agrifood, manufacturing and materials, transport systems, and water.

Around 5,800 people come to Cranfield each year to benefit from our executive and professional development programmes. We have the largest number of taught postgraduate engineering students in the UK and award more PhDs in production and manufacturing engineering than any other UK university every year.

We employ over 1,500 staff, making our staff-to-student ratio one of the best for any university in the UK and the world (one member of teaching staff to every eight students).

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