WMG Graduate Trainee Engineer Programme 2024 Recruitment

Theo Teasdale Ed Griffin







Theo Teasdale, 2023 Warwick Physics Graduate

- Highlights of Physics degree: Plasma Physics and Fusion,
 Quantum mechanics, Condensed Matter Physics
- 3rd year dissertation on 2D semiconductors, implementing lab work and lots of microscopy
- Started the graduate programme in September 2023

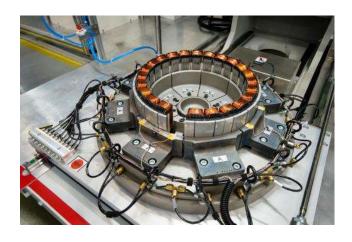




About Us

Ed Griffin, 2018 Warwick Physics Graduate

- Warwick Physics BSc (2015-2018)
- WMG Graduate Engineer (2018-2020)
- Project Engineer in Electrical Machine Design for Manufacture





https://www.safran-group.com/productsservices/engineustm [accessed 29/02/2024]





About WMG

Founded in 1980 by Lord Bhattacharyya

Became a founding member of High Value Manufacturing Catapult in 2011.

Works with a wide range of businesses and industries: from SMEs to international, industry leading companies

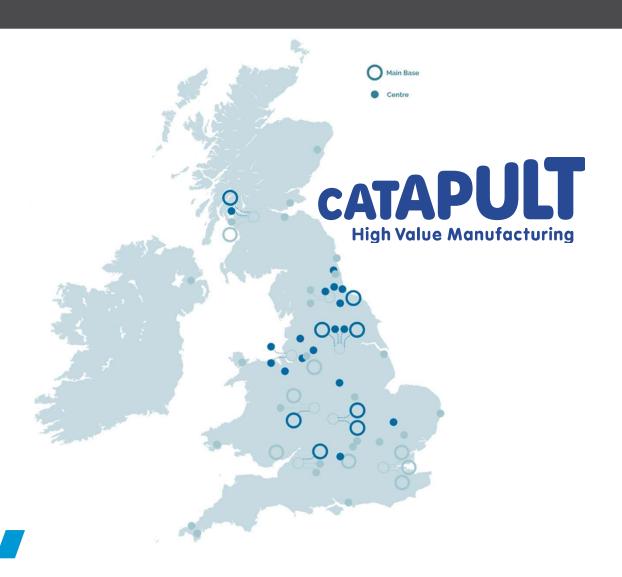
Currently employs over 800 employees and rapidly growing







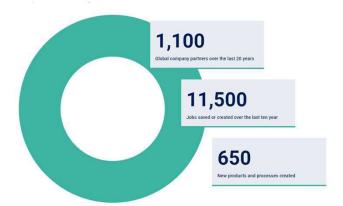
WMG High Value Manufacturing Catapult



WMG impact

A BWI report found that since 2018, despite the COVID pandemic and subsequent economic slump, the WMG SME Group have helped to achieve:

Additional Employment of **464**Safeguarded Employment of **1,629**





WMG Industry Partners

AIRBUS



















1921



















Graduate Scheme



Year 1 – Three rotational projects of your choice with different teams across the organisation

Year 2 – One or two specialist projects of your choice which suit your interest

Where Could This Lead?

- Project Engineer or Project Manager
- Further Study Masters or PhD
- Career in **industry**

100% of graduates offered a Project Engineer position at the end of the programme





What's in it for me?



Post Graduate Certificate in field of interest



Project Planning Management and Control qualification



Work closely with industry partners such as Jaguar Land Rover, Dyson, TATA Steel, Norton, Rolls Royce and BAE Systems



Outreach opportunities and industry events



Build a network of academic and industry contacts



Assigned graduate mentor/buddy



Personal development plan with free learning courses



Progression to Project engineer after 2 years

Starting salary of £29,605

- 26 days paid annual leave, plus 4 customary days over Christmas
- Excellent pension scheme



Research Areas



Materials and Manufacturing



Smart, Connected, Autonomous Vehicles



Energy Innovation





Research Areas



Materials and Manufacturing

- Research into all steps of the manufacturing process
- Work on a wide range of materials: Polymers, composites, metals etc
- Improving the environmental impact of materials by lightweighting, forming techniques, end-of-life concerns, design

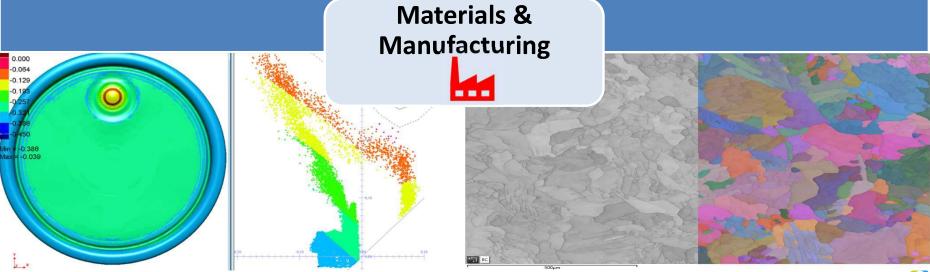




Example Projects

Developing novel formability tests for packaging steel and characterising steel

Phase identification of microstructure in steel microstructure using Electron Back Scatter Diffraction (EBSD)







Research Areas



Smart, Connected, Autonomous Vehicles

- Development of vehicle-to-vehicle and vehicle-toinfrastructure systems
- Improvement of user experience for autonomous vehicles
- Real world tests of autonomous vehicles





Example Projects

Robust Automated Driving in Extreme Weather (ROADVIEW)

The Cloud Assisted Real-time Methods for Autonomy (CARMA)









Research Areas



Energy Innovation

- Research into battery performance through useful life cycles
- Power Electronic, Machines and Drives
- Battery chemistry at end-of-life
- Battery abuse testing





Example Projects

Energy Innovation



Aerospace Manufacturing Capability for Electrical Machines (AeroMC)

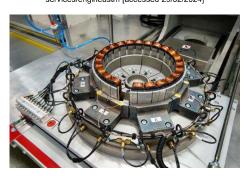


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Compact EDU with Advanced-Technology (CompETe)











Experience so far





















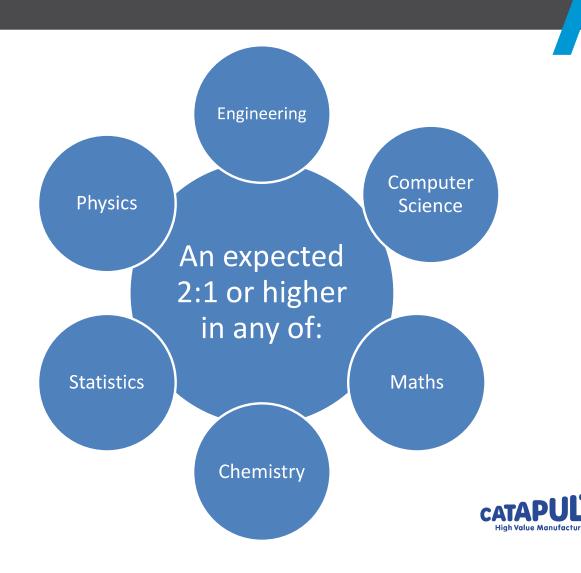
How you fit in from Physics

- The graduate program is the perfect opportunity to bridge the gap between disciplines
- Crossover experiences/skills:
 - Independent research
 - Knowledge from modules (Condensed matter physics, Electromagnetism, Python/Coding modules)
 - Enthusiasm to learning
 - Working within groups/sharing ideas
- A physicist's take on a problem is different to an engineers: this is invaluable to WMG



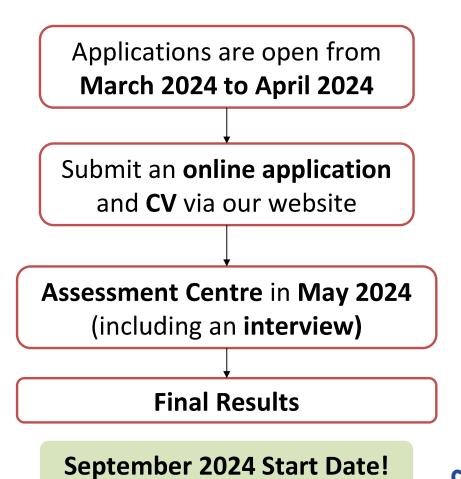


We are looking for...





Application Process







Application Form and CV

We want to understand your motivation for applying to WMG and your chosen pathway. Demonstrating commercial knowledge will make your application stand out.

Assessment Centre

Re-read the Job
Description and Person
Specification, and
consider how you can
demonstrate the key
skills and competencies
that are essential to the
role.

Interview

It is important that you do some research about WMG's business, partners and the market we operate in. Be prepared to discuss your soft skills and technical knowledge.





Thank you for joining us!

Any questions?





Apply Now



Reach out to the WMG Graduate Scheme team wmg-graduatescheme@warwick.ac.uk

Find us on Gradcracker

https://www.gradcracker.com/hub/861/wmguniversity-of-warwick



