

Dear Parent / Guardian

Would you like to help your Son/Daughter make well-informed choices about their future study and careers?

Let's work together to inspire the next generation of Scientists, Engineers and world changers.

The [Engineering Development Trust](#) (EDT) has arranged an insightful local course over the February half term [17th, 18th, 19th], collaborating with; **Coleg College, University (TBC)** and **Airbus** to deliver their [Routes into STEM](#) programme.

What is Routes into STEM?

Routes is an innovative 3-day course which provides young people aged 13 to 15 (Yr 9 & 10) with an understanding of the amazing opportunities offered by **STEM** based careers (Science, Technology, Engineering and Maths).

The course allows your child to engage with a **college**, a **university** and a **company** who have put together an interesting agenda to showcase STEM courses, apprenticeships, degrees and careers, giving your child the best chance to make informed decisions and to meet role models.

Day 1: Coleg College – 17th February 2020

Day 2: University TBC – 18th February 2020

Day 3: Airbus – 19th February 2020

Benefits include:

- Engages all students no matter their academic level
- Practical taster sessions of STEM courses at College and University helping with decision making
- Visualisation of future STEM career opportunities and how to access them through apprenticeship & graduate schemes
- Gaining a bronze industry-led accreditation from [Industrial Cadets](#) (Inspired by HRH The Prince of Wales)
- Meet role models

Course fee, bursaries & other support: The course costs **£140** for all 3 days including the Industrial Cadets accreditation fee **due to funding received by Airbus the course will be free**. You will be sent an email when offered a place with a consent form, to secure your place this will need to be returned by the deadline date.

For More Information Contact EDT: routesintostem@etrust.org.uk or 01707 386 151

Lunch & Travel Arrangements: Students are responsible for their own travel; we encourage car sharing to fit around your work schedules. Lunch is sometimes provided for the course and this will be confirmed along with all other details in the Course Joining Instructions.

Apply Online: <https://membersarea.etrust.org.uk/content/routes-stem-student-online-application>

Routes
into STEM

EDT

Let us help you choose the right Routes into STEM

Are you in Year 9 or 10 (13 to 15 years old)?
This taster course will give you an invaluable
experience and help you understand the
Routes to many exciting, diverse and
well paid STEM careers.



EDT's Routes into STEM can help you to understand all your options available in Science, Technology, Engineering & Maths after your GCSE's in a 3 day taster course...

What will I do?

Here are examples of activities from previous Routes courses. Each course is developed closely with our partners so activities will vary.

Day 1 - College

- The Unreal Gaming Workshop (augmented reality)
- Aerospace Engineering Taster (including a Boeing 737 flight simulator)
- 3D Drawing Workshops (AutoCAD & Solidworks)
- Sound, Time and Frequency Workshop
- Auto Mechanics Tasters
- Chemistry Workshop

Day 2 - University

- Visual Effects Masterclass: film, technology & broadcast engineering
- Fluid Mechanics: build a boat to survive the waves
- Civil & Coastal Engineering Taster
- Physics in Action: mass, force & acceleration
- Presentation Skills Masterclass
- Entrepreneurism Workshop

Day 3 - Company

- Bridge Master Class: understand bridge construction and test to destruction
- Map Challenge: cost and construct your own HS2 railway line
- Environmental Challenge: reduce the negative impact of road construction
- Thermal Imaging Camera Demo
- Networking, Coding & Decoding Challenges
- Mining for The World: competitive team practical - who can create the most successful mining company

What's in it for me?

- Gain knowledge and insights from your peers and other role models. Ask those burning questions and get a better picture of what's right for you.
- Explore apprenticeships and compare them against University degrees. Understand your pathway to get to where you want be.
- Get first hand exposure of a STEM company. Experiencing workplace culture, improving your awareness of job availability and gaining insights into climbing up that career ladder.
- Improve (& test!) your STEM knowledge with challenging & fun practical activities.
- Find inspiration for what type of career suits you, your passions and your strengths.
- Get your head around career planning with our Routes into STEM workbook; filled with useful activities, information and case studies.
- Boost your CV and UCAS application with a Bronze level award from Industrial Cadets showing that you have received a minimum of 20 hours enhanced workplace experience.



Scan me...



Check out this short clip to find out what's involved

96% of Students said they would definitely pursue STEM subjects in the future



99% of Parents & Guardians said that their children had enjoyed the course and felt that it had helped them to think about their future

98% of Students said that they would recommend the Routes Course to their friends



Don't just take our word for it...

"I really liked learning about STEM and what's happening in the real world"

"It has shown me the wide range of courses and jobs available helping me to shape my future"

"I enjoyed all of the practical activities because they are a once in a lifetime opportunity"

"It opened up my mind to the options available"

Don't delay. Contact the Routes team at EDT...

Email: RoutesIntoSTEM@etrust.org.uk

Call: 01707 386151

Partner Organisations:

Colleges

Bromley College
CEMAST Fareham College
Central Sussex College
City College Plymouth
City of Bristol College
Coventry University College
Derby College
Derwentside College
Eastleigh College
Exeter College
Lincoln College
Manchester College, The
Milton Keynes College
Newcastle College
North West London, College of
Northbrook College
Oaklands College
Solihull College
Sunderland College
Telford College of Arts
& Technology
Tyne Metropolitan College
Uxbridge College
West Herts College
Westminster Kingsway College

Universities

University of Bedfordshire
Birmingham City University
University of Brighton
City, University of London
Coventry University
University of Derby
University of Exeter
University of Greenwich
University of Hertfordshire
University of Lincoln
Manchester Metropolitan
University
Newcastle University
Northumbria University
- Think Physics
Plymouth University
Southampton Solent University
University of Southampton
University of Sunderland
University of Sussex
University of The West of London
University of Westminster
University of Wolverhampton
University of The West of England

Companies

Amey
Babcock International
BAE Systems
Balfour Beatty
Bechtel
BuroHappold Engineering
Faccenda Foods Ltd
GKN plc
GlaxoSmithKline
Leonardo
MB Aerospace
Niftylift Ltd
Nissan
Opus International
RAF Museum Cosford
Reece Group
Rolls Royce
Rolls-Royce Controls and
Data Services Ltd
Schneider Electric
Siemens AG
Thales Group

*"Learning about
STEM careers,
showed me in
more depth just
how important
STEM is."*

*"This course has
made me more
likely to choose
a STEM subject
at A-Level."*

*"All the days were well
planned and delivered with
good activities. The course
was very informative"*

