

Materials Matter @ Rolls-Royce plc

Friday, 15 March 2024

Materials, Minerals and Mining Engineering play a crucial role in our lives as everything around us has been made from materials originating from the ground beneath our feet. These fast-moving fields impact upon the technology we rely on to improve our quality of life and yet how often do you stop and consider the intricacies of the things around you?

This FREE one-day conference will give you the opportunity to explore the Rolls-Royce site, investigate careers in the aerospace industry and discover the vital role that materials play in our everyday lives.



WHO IS IT FOR?

This event is for young people in year 12 with an interest in STEM subjects who would like to find out more about materials, minerals and mining engineering. Schools are invited to bring a team of 7 students (maximum), accompanied by a member of staff.



WHERE IS THE VENUE?

The conference will be held at Rolls-Royce Learning and Development Centre on the south side of Derby. Details of where to meet will be provided to schools that secure a place.

HOW DO I BOOK?

Please complete the registration form on page 3. If you have any questions or want to check availability, contact diane.aston@iom3.org

PROGRAMME

0915 to 0940	Arrival and registration
0940 to 0945	Welcome, introductions, housekeeping & safety briefing
0945 to 1030	Materials at Rolls-Royce
1030 to 1045	Break
1045 to 1215	Activity or Tour
1215 to 1245	Lunch (please bring packed lunches)
1245 to 1415	Activity or Tour
1415 to 1500	So, what next?
1500 to 1515	Summary, closing remarks and depart

Materials at Rolls-Royce

The vast team of engineers and technicians at Rolls-Royce use a wide range of materials that operate under high temperature and stresses in some of the most safety critical applications. In this presentation you will explore some of these materials and how they have been developed.

Tour of the Heritage Centre

Aircraft engines are amazing pieces of technology that have developed considerably since their introduction. Through your guided tour of the heritage centre, you will see how materials have shaped air travel over the decades.

Materials in Practice

During this practical session you will have the opportunity to discover how materials scientists and engineers characterise the properties of materials and why this is important for engineering applications. You will also be able to explore a number of different engine components and the materials they are made from.

So, what next?

We hope this event inspires you to consider a materials career and in this final session we will signpost the paths that you could take. Apprentices and graduates will share their experiences and answer your burning questions on their roles and journeys.

Throughout the day you will be on a large, busy site. Please ensure that you and your group follow instructions to the letter and ensure that you are accompanied by a Rolls-Royce representative at all times.. Personal protective equipment will be supplied if it is needed.

If the costs of transport or supply cover are a barrier to you bringing a group to this event, please contact us and we may be able to help with these.

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REGISTRATION FORM

Please complete all fields and return your form by **Friday 01 March** at the latest.

Places will be allocated on a first come first served basis and will only be allocated on submission of a completed registration form. Please note, in registering you confirm that you are able to arrive before 0940 and leave at 1515.

Please submit your form by emailing it to diane.aston@iom3.org

You are invited to bring 7 year 12 learners, accompanied by a member of staff. If you wish to bring a double group (14 learners and 2 members of staff, please get in touch before completing the form to ensure sufficient space is still available).

ABOUT YOUR SCHOOL

Your full name |

Your position |

School |

Address (incl.
postcode

Email address |

Telephone |

Names of teacher(s) attending the event. Please also give the subject they teach

1 |

2

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ABOUT YOUR STUDENTS

	First name	Surname	Year group	Photography permission*
1				Yes / No
2				Yes / No
3				Yes / No
4				Yes / No
5				Yes / No
6				Yes / No
7				Yes / No
8				Yes / No
9				Yes / No
10				Yes / No
11				Yes / No
12				Yes / No
13				Yes / No
14				Yes / No

* We will be taking photographs/video during the event. Please circle to confirm students have permission to be included in these. These may be used in print and electronic media (including the internet) to publicise this and future events. Names will not be published alongside photos.

DECLARATION

- I understand that there are 42 student and 6 teacher places on this conference, and they will be allocated on a first come, first served basis to schools returning completed forms.
- I understand that registrations received after the closing date may not be accepted.
- I understand that I will be responsible for my group of students for the duration of the event and that we will follow all instructions provided.
- I understand that all teachers and students attending need to bring their own lunch and a drink.

Signed |

Date |

Name |