



ENGINEERING WITH SWANSEA UNIVERSITY

MONDAY 3 TO FRIDAY 7 JULY 2023

Join our project team, led by experts from Swansea University for a 5 day residential specialist course for 14 to 16 years olds.



DESIGN, BUILD & TEST YOUR OWN ROCKET CAR!

At Oundle, you will combine theory with practice:

- Designing your vehicle using Computer Aided Design (CAD)
- Building your model using the latest 3-D printing technology
- Wind tunnel testing your vehicle to see if it can stand the heat!

If you have an interest in science, technology, engineering and maths or are looking to study Engineering at University - this is the course for you!

Working with



BLOODHOUND
LAND SPEED RECORD



PLUS - as part of your stay, you will enjoy a guided visit to the Coventry Transport Museum to see Bloodhound's fastest car in the world and experience the land speed record in 4D!

ABOUT YOUR STAY

YOU WILL WORK WITHIN OUR STATE-OF-THE-ART PATRICK ENGINEERING CENTRE GUIDED BY EXPERTS FROM SWANSEA UNIVERSITY.



Click here to learn more about our Patrick Engineering Centre

WHO'S WHO?

BLOODHOUND LSR PROJECT

Bloodhound LSR is an iconic programme which not only aims to break the World Land Speed Record reaching speeds beyond 800mph, but also to showcase world class science and engineering.

By sharing every facet of this unique form of motorsport, we are able to inspire children and adults alike, demonstrating what is possible if you push physics and human endeavour to the absolute limits.

SWANSEA UNIVERSITY

With world-class research centres and outstanding resources and facilities, Engineering at Swansea University provides a superb environment in which to study or conduct research.

It has an extensive track record of industrial collaboration and has significantly contributed to a number of prestigious projects. From the aerodynamic design of the THRUST Supersonic Car, which currently holds the world land-speed record, to aerodynamically designing the BLOODHOUND Supersonic Car.



Led by Associate Professor in Aerospace Engineering, Dr. Ben Evans, you will have access to industry leading equipment here at Oundle School's Patrick Engineering Centre. Working as a team you will design your rocket car using CAD software OnShape, and build your model with the latest 3D printing technology. Once complete, you will have the opportunity to test your creation using our state-of-the-art Wind Tunnel, before moving outside to launch your rocket car.

And your day doesn't stop there! You will also attend evening demonstrations hosted by Oundle School's Partnerships and Outreach programme, including "From the Moon to Mars" presented by the Imperial College London and "Murderous Maths Mayhem" with Kjartan Poskitt.

To complete your stay, enjoy an away day at Coventry Transport Museum with a guided tour of their amazing Land Speed Exhibition, home to Bloodhound Project's fastest car in the world! This session will also allow you to experience the land speed record in the Transport Museum's 4D simulator.

"MY FAVOURITE PART OF THE WEEK WAS TESTING AND SEEING EVERYTHING WE HAD BEEN WORKING ON FIRE OFF, IT WAS AMAZING!"

FOR A TOTAL COST OF £1200, YOU WILL:

- Be hosted in one of our boarding houses located within the heart of Oundle Town, a total stay of four nights, with all meals catered for by our hospitality team.
- Attend our 5 day activity programme that combines small group workshop sessions, practical, hands-on design and build experience.
- Design, build and test your very own rocket car with guidance from Swansea University experts.
- Enjoy an away day at the Coventry Transport Museum to see Bloodhound's fastest car in the world and experience the land speed record in 4D.
- Spend time between the programme activities enjoying Oundle's facilities, including access to our Outreach evening demonstrations as well as access to our Sports Centre and Swimming Pool for the duration of your stay.

CLICK HERE TO REGISTER YOUR INTEREST!

For more information contact Candice Sharp

T: 01832 277 348 E: enterprises@oundleschool.org.uk



**“IT WAS A GREAT EXPERIENCE AND
I WOULD DEFINITELY COME BACK AND DO IT AGAIN!”**

**“WHAT I LIKED ABOUT THIS COURSE IS YOU LEARN BY DOING.
I REALLY HOPE IT HAPPENS AGAIN”**