More Information

Sessions take place at the School of Engineering and ICT (Sandy Bay Campus). Please contact us for pricing information on sessions run at your school.

- Most of our sessions are available throughout the school year. Do one session before lunch and a second after lunch to save on transport costs.
- A parallel professional learning program for teachers is available in all of the Australian Curriculum: Science content areas. Please contact us to design a program that suits your professional development needs.

Our team has also developed and delivered programs in the areas of aviation, basic chemistry, electromagnetism, energy and heat transfer, and robotics.

Also keep in mind that our STEM Education and Outreach program is quite flexible, so please contact us to see if we can meet your needs and those of your students.

Bookings and Enquiries

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Please visit our website for more information:

http://www.utas.edu.au/stem

Costs

Note that a minimum of 20 students is required for a session to run

90 Min Sessions: at the University ($6 per student) *

120 Min Sessions: at the University ($8 per student) *

‘Under Pressure’ Sessions (120 Min): at the University ($12 per student) **

*This also includes the cost of ‘Hydraulicus’ kits, which students can keep (1 kit between two)

*GST must be added to all of the above figures
Hands-On Minds-On STEM Sessions

High school students love engaging in hands-on activities and seeing how the theory relates to the real world. These sessions aim to do just that. Run by the School of Engineering and ICT at the University of Tasmania (Sandy Bay), we hope to provide an environment where students can really enjoy STEM content through an inspiring, age-appropriate, inquiry-based approach.

Go to [http://tiny.cc/stemlinks](http://tiny.cc/stemlinks) to see how each of these programs are linked to Australia's Curricula.

Electricity On Wheels  120 min  Gr: 7-8
Create and race electric powered cars against other students, modifying and improving your design as you go. Practice engineering design processes & experiment to improve your vehicle.

It Sounds Great!  90 min  Gr: 7-8
Listen to music no one else can hear and construct speakers out of the simplest materials. Students learn about how sound is created, sound waves and vibrations, and the basic principles behind the design and construction of speakers.

Let's Be Civil  90 min  Gr: 7-8
How do we build large structures while making sure they don't fall down? Learn about civil and structural engineers, and how they design and construct skyscrapers and bridges.

Work Smarter Not Harder  120 min  Gr: 7-8
This is about simple mechanical machines. Use gearing to make things move and turn while learning about torque and power. Find out how to lift your teacher using one hand and a piece of wood!

Just Add Water  90 min  Gr: 7-8
Water is a vital fluid. Learn about the basics of water, why it is so important, its unique properties, and its function in the environment.

Clean Up Your Act  90 min  Gr: 7-8
A lot of work is done by engineers to make sure the water we use is safe. Learn about the different ways water is cleaned and treated before it enters our homes, and how sewage and wastewater are treated when they leave our homes, then design and construct a water treatment system.

Getting Water From A to B  90 min  Gr: 7-8
Engineers play a large role in getting water to where it needs to go. Learn about water pressure, then use the engineering design process to design and construct a water storage and transport system.

Under Pressure  120 min  Gr: 7-8
Build your own fluid-powered dinosaur using our ‘Hydraulicus’ kits and learn the principles behind levers and hydraulics, in this engaging hands-on session. Students get to take the dinosaur home after the session.

Get A Grip  120 min  Gr: 7-10
Explore assistive devices, the circulatory system, and the physics of breathing. Become a biomedical engineer to design a prosthetic arm from low-cost materials that can show both strength and dexterity.

It’s Electrifying  90 min  Gr: 7-10
Create electronic circuits in a solder-less environment with our ‘Electronic Toy Bricks’ and ‘Neopia’ resources. Expose students to real electronic components and learn how they are used to create useful tools such as radios or a street lamp.

Let’s Dive Right In  90 min  Gr: 7-10
Explore the principles and forces behind sea vehicles’ movement and control using simple low-cost materials. Construct a powered boat and discover how submarines are able to float, hover and sink.

Renew Your Energy  90 min  Gr: 7-10
Learn how hydrogen, solar, and wind power operate by ‘creating’ them in the classroom. Use solar cells to power motors and vehicles. Use the engineering design process to discover the best way of utilising energy from the wind and investigate hydrogen by extracting it from water!

Seeing The Light  90 min  Gr: 7-10
Watch light transmit data across rooms with optical fibres while learning the basic principles behind how light travels through different media. This session provides students with an understanding of the science of light and its uses in current technology.

Our sessions are closely aligned with the Australian Curricula in Maths and Science.

Sessions for year 11-12 students are also available.