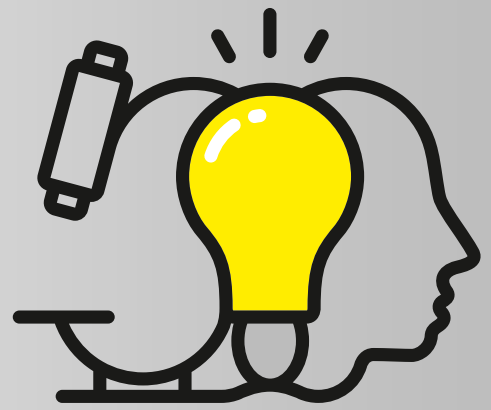


inspire curious minds....



The Hitachi Inspire STEM Education program strives to build connections with the world around us through experiential discovery learning, forging authentic deep learning outcomes.



This joint initiative is being delivered to Australasian schools by Adelaide-based company NewSpec and Hitachi High-Tech America in collaboration with local universities



inspire | STEM
EDUCATION
Powered by Hitachi High-Tech America



NewSpec

HITACHI
Inspire the Next

inspire program



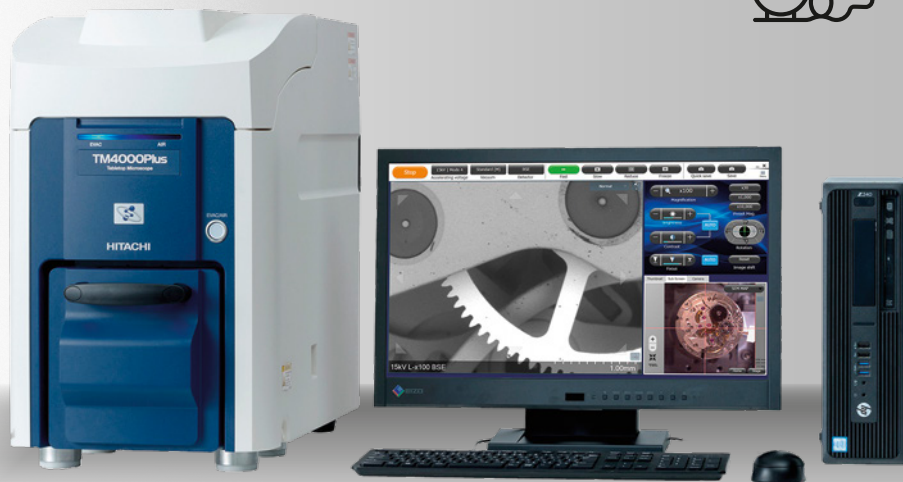
Inspire STEM Education is visiting sites from Preschool to Year 12.

We will support and extend your existing learning program with a visit from our **Mobile Learning Lab**; authentically building upon existing learning opportunities for individual sites and enhancing both learner and teacher motivation, engagement and enjoyment.

Whether you have an investigation in mind or are wondering about what learning opportunities are possible, our experts are available to support with ideas and assist in consolidating your program planning to coordinate with the learning lab visit. Specifically tailored learning sessions can be requested through contacting us.

The Hitachi TM4000Plus Scanning Electron Microscope (SEM): Industry quality equipment available for use in the classroom.

Supporting learner engagement in fields not limited to Science, Technology, Engineering, Arts and Mathematics;
The Hitachi TM4000 is a desktop-sized SEM, perfect for students to gain hands-on access to research grade technology. The easy transport and operation of this instrument make it ideal to install and leave at school sites for weeks at a time. With adaptability to the current world, we offer online introductory and informational sessions in various aspects of operation of the TM4000 SEM.



Learning Lab Visits

Make a booking with us and the **Mobile Learning Lab** will visit your school for a week or more!

Included in your booking:

- Installation of Hitachi's TM4000 Desktop Scanning Electron Microscope – all we require is a secure place to set it up. We can link the SEM to your projector/big screen for visiting classes to easily see the action
- Optical microscopes (Olympus and USB)
- A class set of magnifying glasses
- Access to our sample library, including durable resin set samples for students to handle
- Supporting learning resources and materials
- Inspire staff support as required



Teacher Professional Development

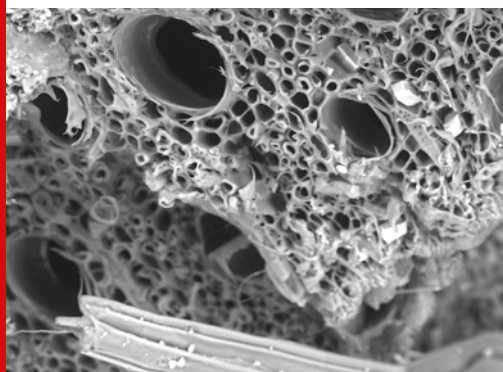
A range of training opportunities are available for booked sites and staff using the mobile learning lab with their students, including:

- Full day professional teacher training workshops. Content of the training covers technical information about electron microscopy, scale, nanotechnology and its significance in everyday life, how to use the lab successfully with students, workshopping the development of individual site programs, learning resources and lesson plans and plenty of time to use the technology and gain proficiency. A fun day of hands-on learning that leaves teachers inspired and equipped to deliver engaging learning programs for all ages
- Online teacher learning support
- Accelerated onsite basic training programs
- More new training opportunities to come

Thanks for the relaxed and informative session. I now walk away feeling comfortable with how to use the SEM and how to connect it with student learning.

Presenters were friendly and good communicators with practical ideas

Great day! Can't wait to have it at school!



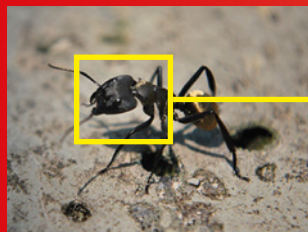
Eucalypt cross-section



When used in philosophically sound, high-quality programs, technology can ignite, enhance, and fortify learning pathways; Inspiring curious minds to explore broadly, question further and deeply enrich our experience of the world.

The program is designed to add value to both teachers and students. Becoming familiar with nanotechnology is of significant importance when we consider the breadth of its real-world applications. Whatever the topic, whatever the interest, this technology is relevant and can be applied in a way that enriches the learning experience and enhances learners' connections to our incredible world.

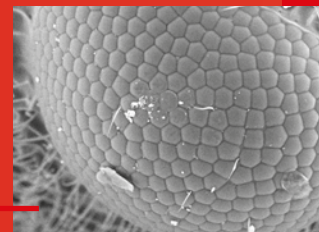
Sciences and the Environment



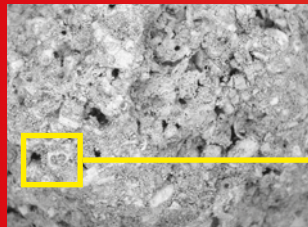
Ant



Ant body



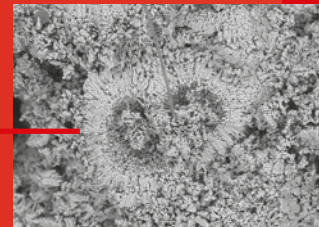
Ant eye



Limestone



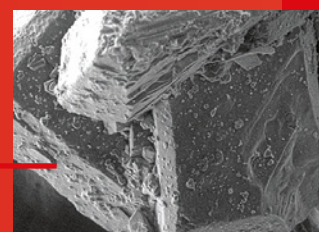
Microfossil



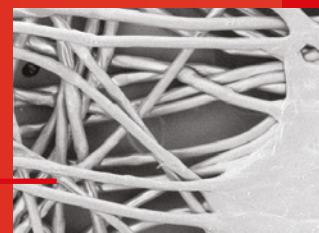
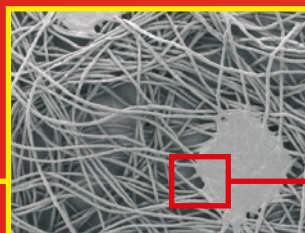
Health and Technologies



Salt Crystals



PE Face Mask



"The highlight for teachers and students was simply being able to access a piece of equipment that most people do not get to see in their lifetime. There were so many "Whoa!" moments as students did slow scans of samples (particularly insects) and saw levels of detail they had not previously seen."

Tullawong State School

Moth face x30 Magnification

"The potential to challenge stereotypes is key to engage and build the aspirations of young people in STEM. It is a significant challenge of attracting students, particularly underrepresented groups, but it is exactly why teachers like myself and many others at Yeronga State High School strive every day to be that someone in a young person's life who encourages and inspires them to 'have a go' and aim high."

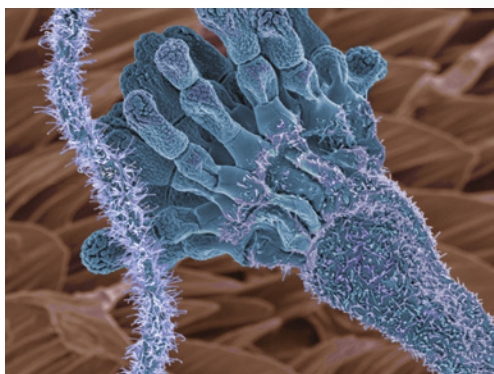
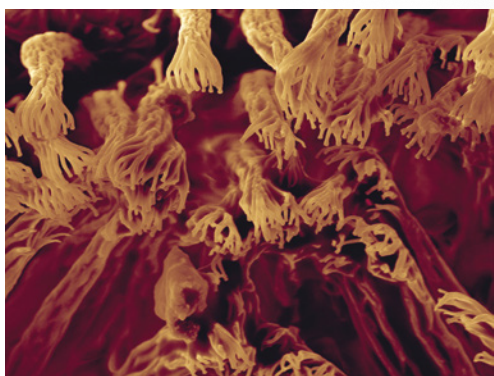
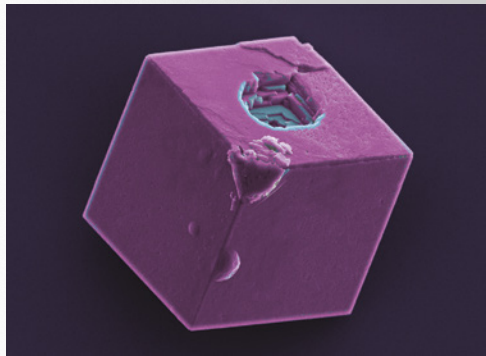
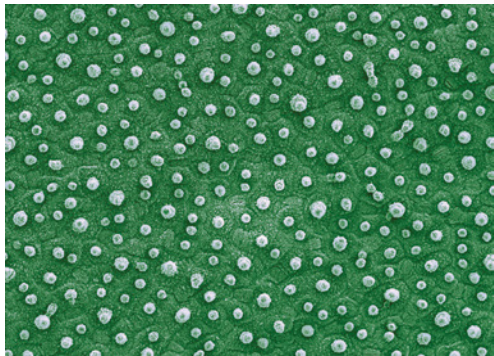
Louise Edwards, on the value-add of the Inspire STEM Education program to her work.



inspire discovery

Can you identify what these images are of?

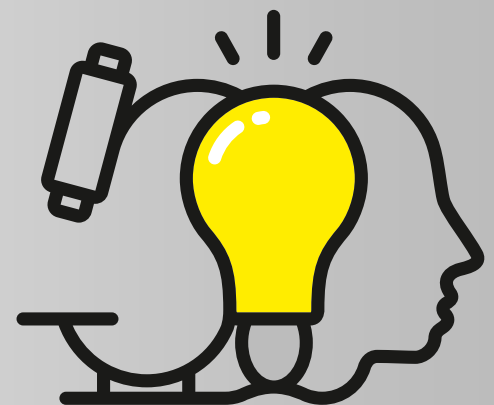
Carbonate crystal | Fish embryo | Fungal conidia | Gecko foot | Leaf stomata | Louse on feather



inspire collaboration

inspire bookings

Please call or email to make a booking or for further information



Inspire STEM Education

330 Glen Osmond Road

Myrtle Bank SA 5064

E: outreach@newspec.com.au

T: (08) 8463 1967

inspirestemeducation.com.au

[f /inspirestemaustralia](https://www.facebook.com/inspirestemaustralia)