In a partnership between the University of Queensland, Adelaide based company NewSpec and Hitachi High Technologies a new initiative has been launched to inspire and enrich learning experiences for students in Australia.

**Career Awareness & STEM Learning**

Nano-technology is expected to impact every part of our modern lives. It is a field that most students, teachers and adults know little about despite its key role in such things as cleaning our water, defence, mining, developing cleaner energy sources, drug treatments, targeted determination of diseases, development of smaller smart telecommunications electronics and many other industries.

The gap between the technical skills available for STEM related careers and the technical skills required will impact directly upon our ability to find solutions for many of the world’s problems (Hitachi, 2017).

**Student Engagement**

The Hitachi TM4000 is a desktop sized scanning electron microscope (SEM), making it perfect for students to gain hands on access to research-grade technology. The easy transport and operation of this instrument makes it ideal to install and leave at school sites for weeks at a time.

The “Inspire STEM Education” initiative builds connections to the world around us through experiential and discovery learning, forging strong and genuine learning outcomes. When used in philosophically sound, high quality programs, technology can ignite, enhance and fortify learning pathways and inspire curious minds to explore further, question more and deeply enrich our experience of the world.
Training Details
Nominated staff will be fully trained on the mechanics, capabilities and operational procedures of the Hitachi TM4000 Desktop SEM.

Training participants will be confident in supporting students to collect and effectively image their own samples. Trainees will be provided with best practice examples of working with the SEM in classroom settings. Support and recommendations are provided to create a site specific plan tailored to best support individual learning requirements and goals.

Usually, this day will take place on the final Friday of the school holiday period preceding your booking to allow all staff to access the training.

Contact Details
outreach@newspec.com.au
inspireatcmm@uq.edu.au