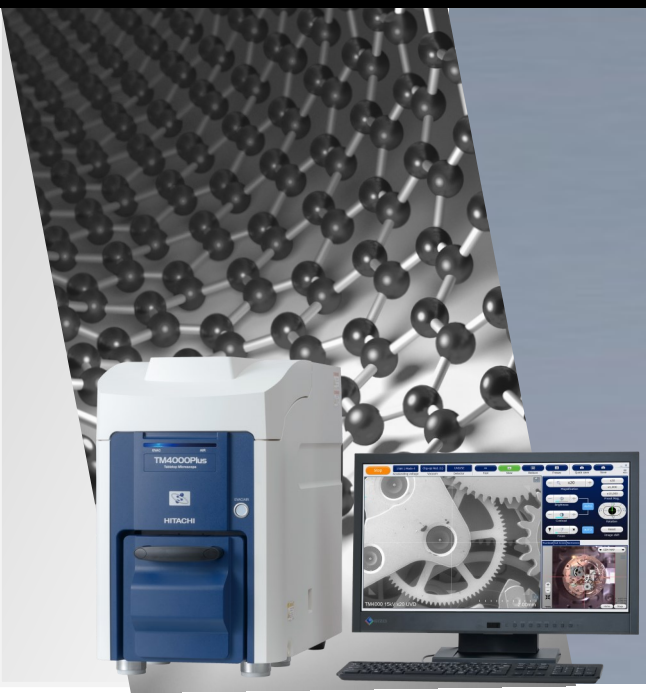
inspire | STEM EDUCATION

HITACHI
Inspire the Next



Hitachi High-Tech America
Inspire STEM Education Outreach Program
100k Students and Counting

Join us to Inspire the NEXT and Powering Good for our future...

Inspiring the Next & Powering Good

The Hitachi High-Tech America's Inspire STEM Education Outreach Programs' mission is to inspire the next generation of innovative science pioneers through the advancement of science, technology, engineering, and math.

Our program inspires kindergarten to graduate-level students with the tabletop scanning electron microscope and maximizes the learning experience with the best practices and resources from our work in the field as well as from collaborators and partners in education and business.

We open the micro-world as an exciting, hands-on, active learning resource for students that can inspire a lifelong interest in STEM. Our teaching tools provide an opportunity to incorporate nanotechnology and microscopy into the classroom.

Benefits/Value

Technology

- The TM4000 Series features innovation and cutting-edge technologies
- Integrates ease of use, optimized imaging, and high-image quality.
- Maintains a compact design

Training

- Dedicated support team
- In person and virtual SEM training
- Video & written instructions for all types of learners

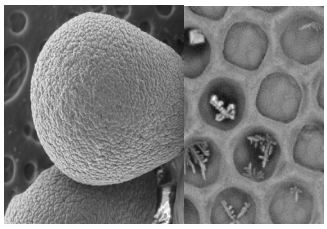
Resources

- Growing Library of educator created content
- Expanding network of STEM partners across the US
- Flexible projects for educators & students to use in school or remotely

Contact us: Lori Harvey@hitachi-hightech.com; Twitter: @Hitachi_STEM;

Our Program

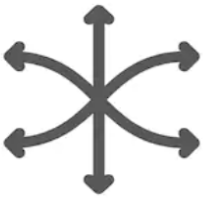
Technology



Fine Structure Observation

- High Sensitivity to observe different brightness levels representing composition
- Compositional contrast including surface details using lower accelerating Voltage
- Innovative secondary-electron detector to obtain surface detail with non-conductive samples at lower vacuum conditions

Flexibility



Solutions based on local needs

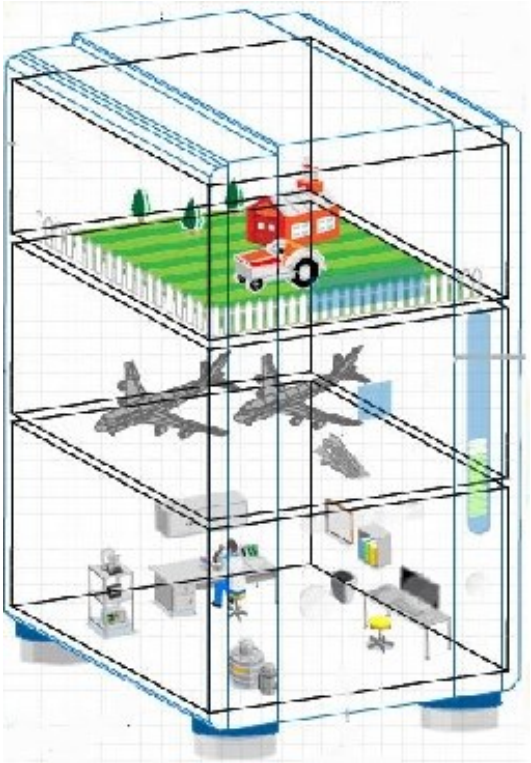
- Dedicated staff who listens, experienced in creating local educational & business solutions to meet community needs
- Wide range of experience implementing best practices for success.
- Innovative solutions to ever changing shifts in education and world issues.

Program Access

Learning Scenarios

- Flexible teaching tools that can be used both in school and remotely
- Robust pathways that work with almost any existing school teaching platform: i.e. Google and Dojo Classroom , & more
- Intuitive ease of use for educator and students with a growing number of partners for support.

Real World Application



Agriculture

Biosciences uses TM Series microscopes to characterize and classify mites and insects to protect our food chain.

Material Science

TM series microscopes assist in developing nanomaterials such as carbon composites, which allow planes to have less weight, more structural integrity, and an ability to fly longer distances.

Medical

The TM Series is used in manufacturing better drug-eluting/ polymeric coatings, which help increase patient longevity.

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