

# Technology Resources & Materials

## **Auraria Emerging Technologies Prototyping Lab**

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AETPL is a growing collaboration of students, staff & faculty on the Auraria campus to convert new scientific findings and technical advancements into viable technologies and products. This collaboration extends to the CU Health Sciences campus and many of the projects are oriented towards biomedical innovations. We also seek active involvement of regional industry and other research institutions in Colorado. Secondary school students and teachers are invited to participate in AETPL's programs as well.

<http://carbon.cudenver.edu/~rtagg/Research/AETPL.html>

## **Colorado Microenterprise Technology Center**

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CMTC is a joint project between AETPL (University of Colorado at Denver and Health Sciences Center) and the Microbusiness Development Corporation. Its function is to engage students in providing technical assistance and prototyping for small businesses. A laboratory and technology development area called the Snarkworks provides access to advanced prototyping equipment, scientific instruments, materials, and technical components. In addition to serving regional small business clients, a goal is to engage youth in early activities that connect science, technology, and entrepreneurship.

(Website under construction)

## **Comparison of Hawaii Volcanic to Mars Volcanic Project**

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[www.science.nasa.gov](http://www.science.nasa.gov)

This project is in collaboration with the NPS and NASA to develop a film and curriculum comparing volcanic features on earth and Mars.

## **Professional Learning Access in Science and Mathematics through Internet Delivery (PLASMID)**

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This grant will utilize the coursework of the Rocky Mountain Middle School Math and Science Partnership and the online infrastructure of Colorado Online Learning to deliver a high quality middle school math and/or science

certification program to teachers across Colorado. This grant partners with 11 rural school districts and will begin offering courses on-line Spring 2008.

### **Scholars for Knowledge in Learning and Leadership (SKILL) Mathematics Science Partnership**

The Scholars for Knowledge in Learning and Leadership (SKILL) Mathematics Science Partnership draws on and focuses the commitment and expertise of Denver Public Schools (DPS) and the University of Colorado at Denver and Health Sciences Center (UCDHSC) to advance the science and math achievement of middle school students. The SKILL MSP targets the further development of middle grade science teachers through intensive summer research internships at the Health Sciences Center (HSC). The internships will increase the scientific knowledge base of the participating teachers while providing hands-on experience in inquiry-based research. Middle school science teachers will be paired with basic or clinical research faculty mentors at the HSC for a six-week period to conduct a research project. Graduate students/postdoctoral fellows from the HSC will serve as the lab advisors for the teachers and will host on-line discussion groups for participating teachers during the following academic year.

### **School of Education and Human Development (SEHD) Internship Program**

*Bruce Nash; Kristin Lucke; Michael Marlow- Associate Professor Education & Human Development 303-556-8111 [Mike.Marlow@cudenver.edu](mailto:Mike.Marlow@cudenver.edu)*

This project places education interns into the National Park Service 'Views of the National Parks' directed by Bruce Nash. Existing on-line modules- (1) Caves and Karst and (2) Glaciers (SEHD- Michael Marlow, Kristin Lucke). Funded by NPS grants.

### **Scientific Instrumentation Past, Present and Future Project.**

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A collaboration with NPS and NASA to develop a curriculum and associated film on scientific instrumentation using rafting the Grand Canyon as a stage.

### **STEP Project**

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A collaboration with the Space Science Institute and eight museums across the country to investigate Science Theater impacts on the public and the presenters.

### **Virtual Student Fellowship**

<http://mama.uchsc.edu/vc/cancer/welcome.cfm>

This site, funded by the National Cancer Institute, introduces high school and college students to the biology underpinning cancer research. Students may use these modules to prepare for actual participation in the Student Cancer Research Fellowship Program at the University of Colorado School of Medicine.