

Don't Miss This Grant Opportunity

Attention School Leaders: Superintendents, Principals and CTE Directors

From: Janice Rehak, Coordinator, Office of College and Career Readiness

Contact Us to Receive Training Grants to Adopt Advanced Career (AC) STEM-Focused Curricula in Fall 2016.

These STEM and project-based AC curricula require students to work in teams, perform research and use technology to design, build and re-engineer products, develop tests and analyze results. Students develop a strong numbers sense, learn to read complex texts and collaborate with others to solve real-world problems. Students learn how STEM knowledge supports the path to postsecondary education and a rewarding career.

- Training grants will cover up to \$6,500 in registration fees for the AC teachers participating in summer training.
 - o Note: Schools may accept two grants (\$3,250 each) in order to implement Courses 1 and 2 or opt to accept one grant to implement Course 1 of the AC pathway.
 - o Note: The registration grant does not cover the costs of transportation, lodging and food.
- ▶ **All schools receiving a grant must sign a Memorandum of Understanding (MOU) with SREB, and they must implement Course 1 in Fall 2016.**

Apply for training grants for AC curricula:



Aerospace Engineering appeals to students who are curious about the design and flight of aircraft and space vehicles. Students learn and apply the engineering design process to building and testing aircraft, exploring space and studying underwater components.



Clean Energy Technology interests students who seek to utilize the latest technologies to tackle global energy needs within a green point of view. Students apply science and math knowledge and the operating principles of clean energy systems to solve problems that involve photovoltaic systems, biofuel generation, water power, energy harvesting and more.



Energy and Power attracts students who are interested in a career that will allow them to apply science, math and technical skills and knowledge. Real-world assignments help students to understand the interplay of the generation, distribution and use of the five energy types: chemical, electromagnetic, heat, nuclear and mechanical.



Global Logistics & Supply Chain Management engages students who want to use research and assessment to solve complex spatial problems about how to move people and products between points. Students solve real-world challenges, collaborate and practice critical thinking skills as they develop solutions to authentic logistics and supply chain problems that businesses face locally and internationally.



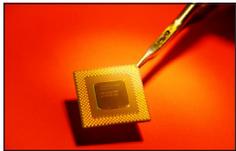
Health Informatics attracts students who are interested in the fastest-growing segment of the health-care field, which combines information science, computer science and health care. Students use information technology, data analysis software and statistics to address an array of common topics in the health-care informatics field.



Informatics draws students who seek to explore a career field that combines aspects of software engineering, human-computer interaction, decision theory, organizational behavior and information technology. The curriculum allows students to utilize software systems to collect, store, assess and communicate data for meaningful outcomes.



Innovations in Science and Technology appeals to students who want to solve real-world problems and develop an understanding of the relationship among the physical, biological and social world. Students experience the interaction of science, technology, engineering, mathematics and literacy through the project-based learning environment of this broad STEM-based curriculum.



Integrated Production Technologies students use innovative technologies to imagine and design new and improved products. They apply what they learn in physics, chemistry and biology to real-world projects using emerging, cutting-edge materials.

Choose Advanced Career STEM-focused curricula for your school:

- ▶ Explore AC course syllabi and sample project units: http://www.sreb.org/page/1776/preview_ac_project_units.html
- ▶ View AC curricula and download brochures: http://www.sreb.org/page/1609/the_pathways.html

What students and teachers are saying about AC curricula:

My first AC course enabled me to determine a career niche. I plan to take additional AC courses throughout the rest of high school. — Student

The leadership, collaboration and initiative that this course has brought to our freshmen are unprecedented. AC Informatics students have a huge edge over other students when competing for good jobs. — Haldan Pflueger-Smith, AC Informatics teacher

Please contact your DESE CTE program director to discuss how this curricula might fit with current or new programs:

Lori Niekamp, Director of Business, Marketing, and Information Technology (lori.niekamp@dese.mo.gov)

Oscar Carter, Director Technology and Skilled Technical Sciences (oscar.carter@dese.mo.gov)

Jim Hogan, Director of Engineering and Technology (jim.hogan@dese.mo.gov)

Shelly Wehmeyer, Director of Health Sciences Education (shelly.wehmeyer@dese.mo.gov)

Teachers to contact about how AC curricula are making a difference:

Aerospace Engineering

Dothan Technical Center, AC Teacher Terry Thornton,
tethornton@dothan.k12.al.us

Clean Energy Technology

Center for Advanced Technical Studies, AC Teacher,
Patrick Smallwood, plsmallw@lexrich5.org

Energy and Power

Madison County High School, Science and AC Teacher,
Andrea Krell, andrea.krell@madison.k12.fl.us

Health Informatics

Shelby County Technology Center, Principal Steve
Coleman, steve.coleman@shelby.kyschools.us

Informatics

The High School of Commerce, Haldan Pflueger-Smith,
Algebra and AC Teacher,
smithha@springfieldpublicschools.com

Innovations in Science and Technology

Clay County High School, Principal Melissa Isaacs,
misaacs89@gmail.com

Global Logistics & Supply Chain Management

Heart of Georgia College and Career Academy: CEO
and AC Teacher, tiffany.lofton@dublincityschools.us

Integrated Production Technologies

Carver Career and Technical Center, AC Teacher Bruce
Hamrick, bhamrick@mail.kana.k12.wv.us

To take advantage of this funding opportunity and adopt an AC curriculum, complete and email the following form to:

- ▶ Janice Rehak, coordinator, College and Career Readiness
email: janice.rehak@dese.mo.gov; phone: 573-526-4900

Please contact us with any questions you may have.

We will also contact you after receipt of the following form.

Name: _____ Title: _____

School: _____

Email: _____ Phone: _____

I am interested learning more about the 2016-17 training and equipment grants for:

_____ Aerospace Engineering

_____ Health Informatics

_____ Clean Energy Technology

_____ Informatics

_____ Energy and Power

_____ Integrated Production Technologies

_____ Global Logistics & Supply Chain Management

_____ Innovations in Science and Technology

_____ Prior to adopting a curriculum, I would like to visit a school that offers the program.