

21st Century STEM Labs in Georgia

FY10 Title II, Part D, ARRA
Ed Tech Competitive Grants



Dr. John D. Barge, State School Superintendent
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STEM in Georgia

- **Georgia STEM Institute**

The Georgia Department of Education is planning to host the first Georgia STEM Institute this summer from July 6-15, 2011. Participating schools would send teams of CTAE and core content teachers to Atlanta for a 10-day immersion experience in STEM. Teachers attending the Institute will have the opportunity to exchange ideas, interact with members of different STEM industries and visit STEM sites.

- **Georgia STEM Festival**

The Georgia Department of Education will sponsor a STEM Festival in the fall of 2011 at a public venue yet to be decided. The event will expose the public to Georgia's STEM industries and businesses and highlight the transformative STEM work conducted in our K-12 schools. Universities and colleges of Georgia will also display their STEM programs. Vendors of STEM materials will be available for public perusal.

- **Georgia Department of Education STEM School and STEM Program Designation**

Schools in Georgia may apply for official GaDOE STEM School or STEM Program Designation via an application process where specific criteria indicative of STEM schools are met.



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STEM in Georgia

- **STEM Georgia Webpage**

We are in the process of publishing the STEM Georgia webpage which will include links to teacher resource materials, STEM schools in Georgia, and integrated project lesson plans.

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- **STEM Classroom Feedback Rubric**

A rubric for providing feedback to STEM teachers in order to move instruction toward exemplary status is now available.

- **Georgia Alliance of STEM Teachers**

Teachers may select from four levels of participation based upon experience with project-based learning and STEM programs from Level 1 (interested in learning and trying STEM experiences with students) to Level 4 (currently full implementation of STEM initiatives and would like to collaborate with and/or mentor other teachers) DOE will coordinate teacher interactions via list serve, webinar sessions, SKYPE video conferences, school visits, Twitter, e-mail, etc.



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Title II, Part D, ARRA Grant 21st Century STEM Schools

- Δ 26 21st STEM Labs in high schools and a feeder middle school
- Δ 1 grant awarded per congressional district
- Δ Each LEA award = \$691,109
(Total grant award = \$8,984,417)



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Title II, Part D Grant Goals

- Δ Increase community understanding of STEM education to prepare students for work and life in the 21st century.
- Δ Develop model technology enabled STEM labs emphasizing, interdisciplinary, hands-on, inquiry-based (guided discovery) learning
- Δ Increase Georgia's capacity to provide high quality K-12 STEM professional learning opportunities.
- Δ Increase student engagement and interest in STEM studies.
- Δ Increase student 21st century skills and technology literacy by providing use of the technical tools of the STEM industry.
- Δ Increase the number of students pursuing careers in STEM-related fields and/or post-secondary STEM related education/training.



Title II, Part D STEM Schools

LEA	High School	Middle School	Concentration
Carrollton City	Carrollton High	Carrollton Jr. High	Engineering – Robotics
Chattooga County	Chattooga High	Summerville Middle	Forensics & Robotics
Decatur County	Bainbridge High	Bainbridge Middle	Agriculture
DeKalb County	Avondale High	Avondale Middle	Engineering
DeKalb County	Cedar Grove High	Cedar Grove Middle	Biotech/Health Science
DeKalb County	DeKalb School of Arts	Chamblee Middle	Engineering – Robotics & Graphics
DeKalb County	Dunwoody High	Peachtree Middle	Engineering – Robotics & Biotech
Jenkins County	Jenkins County High	Jenkins County Middle	Agriculture
Laurens County	East Laurens High	East Laurens Middle	Engineering
Madison County	Madison County High	Madison County Middle	Agriculture
Social Circle City	Social Circle High	Social Circle Middle	Biotech/Health Science
Telfair County	Telfair County High	Telfair County Middle	Agriculture & Engineering
Walker County	Ridgeland High	Rossville Middle	Engineering & Broadcasting



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