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ALABAMA COMMISSION ON HIGHER EDUCATION

NO CHILD LEFT BEHIND (NCLB)
P.L. 107-110, TITLE 11, PART A/SUBPART 3
PROFESSIONAL DEVELOPMENT PROGRAM
IMPROVING TEACHER QUALITY:
MASTERY OF CONTENT

PROJECT DIRECTORY
FISCAL YEAR
2013-2014



Alabama Commission on Higher Education
P.O. Box 302000
Montgomery, Alabama 36130-2000

**Alabama Commission on Higher Education
No Child Left Behind Act (NCLB)
P. L. 107-110, Title II, Part A/Subpart 3
Professional Development Program
IMPROVING TEACHER QUALITY: MASTERY OF CONTENT**

**PROJECT DIRECTORY
Fiscal Year 2013-2014***

Under authority of Public Law 107-110, the Alabama Commission on Higher Education (ACHE) is awarding a total of \$943,642 federal funds to Alabama institutions of higher education for professional development in grades K-12. The funding continues long-term projects that were awarded FY2012-2013 grants. Receiving these grants are seven public universities. The grants support partnerships between higher education and high-need school districts, with one including a non-profit agency in co-project leadership and three providing direct support for the state-wide Alabama Math, Science, and Technology Initiative (AMSTI). All are designed to provide long-term, statewide professional development to improve teaching in Alabama public and private schools. A major objective is to achieve high student performance standards, with high-need local school districts as partners.

These projects provide K-12 teachers, administrators, and para-professionals with content knowledge in individual hands-on training using the most current technology and proven learning strategies. After initial sessions, projects also include follow-up sessions and technical assistance during the academic year to refresh, reinforce, and re-establish content knowledge and teaching techniques. Follow-up varies by project but typically includes multiple one-day workshops during the school year and on-site observation/assistance visits to teachers in their schools. In addition, most projects maintain support and service to participants by e-mail, voice contact, and internet websites.

Expenses for administering these projects and for providing project materials are covered by the ACHE NCLB program along with support from the host institutions, private corporations, and government agencies. One ACHE NCLB grant supports teachers' independent research, including study abroad. Travel and related expenses for participants in other projects are provided by sources other than ACHE NCLB funds.

Information on the objectives, schedules, and activities of these projects may be obtained from the project directors listed in this directory. Information on the overall higher education NCLB Program in Alabama is available from Dr. Elizabeth French at (334) 242 2179 [Elizabeth.French@ache.alabama.gov] and Dr. James Conely at (334) 242 2235 [Jim.Conely@ache.alabama.gov] in the Office of Institutional Effectiveness and Planning at ACHE, P. O. Box 302000, Montgomery, Alabama, 36130-2000. Additional information on this program is available online at <http://www.ache.alabama.gov/NCLB/Index.htm>.

* Projects with FY 2013-2014 funding are active from spring 2014 through spring 2015.

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**ACHE NCLB PROFESSIONAL DEVELOPMENT PROGRAM
IMPROVING TEACHER QUALITY: MASTERY OF CONTENT**

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I.

*Alabama Math, Science, and Technology Initiative
(AMSTI)*

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Athens State University (Athens)

Alabama Math, Science, and Technology Initiative (AMSTI) Lead Teacher Enhancement Project

University Partners	High-Need School District Partner*	Other School District Partners
College of Arts and Sciences College of Education Regional In-Service Center Alabama Technology in Motion Alabama Science in Motion	Athens City	Blount County Cullman County Lawrence County Limestone County

The AMSTI Lead Teacher Enhancement Project, in collaboration with the Alabama State Department of Education (ALSDE), is designed to provide professional development for Lead Teachers to promote a higher level of mastery of math and science content and in particular to promote the alignment of AMSTI curriculum and resource material with the Alabama College and Career Readiness Standards. Special focus is directed to implementing curriculum reform in mathematics. The project draws upon research-based best practices to (1) provide specialized learning experiences that deepen participants' content knowledge in math and science and (2) enable a higher level of content mastery and fidelity of implementation of AMSTI best practices.

Project Director: Carrie S. Lin
AMSTI Director

Telephone: (256) 216-6622

FAX: (256) 216-6623

E-mail: carrie.lin@athens.edu

Session Dates:
Phase II PLT Training
May 2, 2014

Location:
Athens State Regional Inservice Center
1115-A Hwy 31 South
Athens, AL 35611-1902

Phase II Content Deepening
OGAP Additive Reasoning
June 17-19, 2014
June 24-26, 2014

Location TBA

* High-need school district partners are those that meet NCLB criteria for 20% percent or more of students in poverty households estimated in the U. S. Census Bureau's most recent report *and* high number of non-highly qualified teachers.

Jacksonville State University (JSU)

***AMSTI (Alabama Math, Science, and Technology Initiative)
Lead Teacher Enhancement Project***

University Partners	High-Need School District Partners*	Other School District Partners
College of Arts and Sciences College of Education and Professional Studies In-Service Education Center Technology in Motion Alabama Science in Motion	Cherokee County Gadsden City Oxford City Piedmont City	Calhoun County St. Clair County

This project is designed to (1) establish and implement Professional Learning Teams (PLTs) and (2) provide professional development for the PLTs in aligning the AMSTI curriculum and resource material with the Alabama College and Career Readiness Standards. Teachers work and learn collaboratively in PLTs. The goal is building sustained leadership by empowering and enhancing the leadership potential of lead teachers in AMSTI schools.

Project Director: Dr. Kelly Ryan, Acting Director
Regional In-Service Center

Telephone: (256) 782-5577

FAX: (256) 782-5982

E-mail: kryan@jsu.edu

Internet: www.amsti.org

AMSTI JSU: Tanya Barnes,
AMSTI Project Administrator
Regional In-Service Center
176 Rucker Street
Anniston, AL 36205-3903

Telephone: (256) 782-8601

FAX: 256-782-5982

Email: tbarnes@jsu.edu

Session Dates:
Fall 2014

Location:
JSU In-Service Center

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University of Alabama in Huntsville (UAH)

AMSTI (Alabama Math, Science, and Technology Initiative) Lead Teacher Enhancement Project

University Partners	High-Need School District Partners*	Other School District Partners	Other Partners
Institute for Science Education STEM and Education faculty	DeKalb County Fort Payne City Huntsville City Marshall County Scottsboro City	Albertville City Hartselle City Jackson County Madison City Madison County Morgan County	Alabama A&M University, Regional In-service Center

The AMSTI Lead Teacher Enhancement Project, in collaboration with the Alabama State Department of Education (ALSDE), is designed to provide professional development for Lead Teachers to promote a higher level of mastery of math and science content and in particular to promote the alignment of AMSTI curriculum and resource material with the Alabama Course of Study standards. Professional Learning Teams (PLTs) can promote teacher collaboration, enhance the teaching of content knowledge, and provide higher standards for all students.

Project Director: Dr. James Miller
Institute for Science Education

Telephone: (256) 824-6156 **FAX:** (256) 824-6961

E-mail: millerja@uah.edu

AMSTI UAH: Carol Mueller
AMSTI Director
Institute for Science Education
301 Sparkman Drive
SKH #205
Huntsville, AL 35899

Telephone: (256) 824-6156
FAX: (256) 824-6961
Email: muellerc@uah.edu

Session Dates: TBA **Location:** TBA

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II.

Multi-Year Projects

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Jacksonville State University

IMPACTSEED: Improving Physics And Chemistry Teaching in Secondary Education

College Partners	High-Need School District Partners*		Other School District Partners	
College of Arts and Sciences College of Education & Professional Studies	Anniston City Blount County Chambers County Cherokee County Chilton County Coosa County Cullman City DeKalb County Fayette County Franklin County Gadsden City	Jacksonville City Marion County Marshall County Oxford City Pell City Piedmont City Russellville City Talladega County Tallapoosa County Walker County Winston County	Attalla City Baldwin County Boaz City Clay County Cleburne County Cullman County Elmore County Etowah County Guntersville City Jackson County Jefferson County	Lauderdale County Lawrence County Lee County Limestone County Madison City Madison County Randolph County St. Clair County Tuscumbia City

IMPACTSEED addresses two pressing problems: Over 83% of chemistry teachers and 94% of physics teachers are teaching out of field, and regional student achievement in physical sciences is much lower than the state average. To resolve these problems, the project helps teachers to make physics and chemistry understandable and fun to learn within a hands-on, inquiry-oriented setting, and also to overcome the fear-factor for these subjects among students and teachers alike. Five major components comprise the project: (1) an intensive two-week summer professional development program; (2) five technology workshops during the academic year; (3) sustained, year-round on-site support to the teachers; (4) year-round physics and chemistry hotlines to offer immediate support to the teachers when needed; (5) a website to disseminate the results of the project and to list useful resources. IMPACTSEED correlates to the Alabama Course of Study and national standards with primary emphasis on having students discover rather than memorize and with teachers questioning rather than telling. The project gives special attention to entry-level teachers throughout the state, notably those from high-poverty schools, minorities, and underrepresented groups.

Project Director: Dr. Nouredine Zettili, Professor

Address: Department of Physical and Earth Sciences
Jacksonville State University
700 Pelham Road North
Jacksonville, AL 36265

Telephone: (256) 782-8077 **FAX:** (256) 782-5336

E-mail: nzettili@jsu.edu

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Internet: <http://www.jsu.edu/depart/pes/physics/impactseed/>

Session Dates:

Summer Institute:

June 9-20, 2014

Technology workshops:

Five School-Year Saturdays [Dates TBA]

Location:

Martin Hall, Jacksonville State University

Troy University–Dothan Campus (TUD)

Wiregrass Math, Science, and Technology Leadership Academy

University Partners	High-Need School District Partners*	Other School District Partner
College of Arts and Sciences College of Education	Dale County Dothan City	Enterprise City

This Leadership Academy promotes inquiry-based math and science instruction highlighting the application of technology. Language Arts/Writing and cross-curriculum cultural enrichment strategies are presented to demonstrate the need for integrating all content areas. The Academy encourages professional development that has significant and meaningful math and science content that models research-based instructional strategies. Teachers in non-affiliated AMSTI schools are provided materials and equipment to implement instructional strategies to improve achievement in math and science. On-going support is provided to sustain their instructional strategies.

Project Directors: Dr. Vijaya Gompa
Department of Mathematics
Troy University-Dothan Campus
501 University Drive; P. O. Box 8368
Dothan, AL 36304-1575

Telephone: (334) 983-6556, Ext. 387

FAX: (334) 556-1054

E-mail: vgompa@troy.edu

Session Dates
June 18-20, 23-24, 2014

Location:
Troy University- Dothan

Followup Dates
November 15, 2014
February 7, 2015

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The University of Alabama (UA)

Physical Science in the 21st Century (PS-21): Improving Teacher Quality and Mastery of Content

University Partners	High-Need School District Partners*	Other School District Partner
Department of Chemistry Department of Physics and Astronomy Department of Curriculum and Instruction In-Service Education Center	Birmingham City Chilton County DeKalb County Fayette County Gadsden City Huntsville City Marengo County Marion County Wilcox County Thomasville City	Hale County Jefferson County Shelby County Tuscaloosa City

This project provides professional development for middle and high school physical science teachers in rural and urban city schools. Four one-day institutes are held during the school year with online resources provided for continuous professional development in the interim periods. Professional development includes chemical reactions; chemical energy; measurement of chemical processes; characteristics of forces in nature; relating velocity, and acceleration; types of energy; transferring energy; light and optics; using technology tools (apps and sensors) in classrooms; and working with other teachers in a professional learning community. Project objectives are to enable teachers to: (1) demonstrate deeper content knowledge on key physical science focus themes found in national and state standards, (2) acquire and implement in science classrooms effective instructional pedagogy facilitating students' meaningful understanding of physical science content, (3) use of laboratories in the physical sciences, and (4) engage in professional development of both content and pedagogy during the school year through varied venues. Participants use interactive technology to model 21st century understandings of the themes and construct interactive lessons using physics and chemistry to deepen and students' understanding.

Project Director: Dr. Dennis W. Sunal, Professor

Address: Department of Curriculum and Instruction
 205C Graves Hall, P. O. Box 870232
 Tuscaloosa, AL 35487-0232

Telephone: (205) 348-7010 **FAX:** (205) 348-9863

E-mail: dwsunal@bama.ua.edu

Internet: <http://ps21pd.weebly.com/>

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Session Dates:

Friday, September 26, 2014

Friday, October 31, 2014

Friday, January 30, 2015

Friday, March 6, 2015

Location:

UA Tuscaloosa Campus

3408 Science and Engineering Complex

+Continuous Online Professional Development with individual activities, communication, mentors.

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University of Alabama at Birmingham (UAB)

The University-School Partnership for Secondary Science Education ("BioTeach")

University Partners	High-Need School District Partners*	Other School District Partner	Other Partners
College of Arts and Sciences School of Education	Birmingham City Dallas County Selma City Fairfield City	Jefferson County	Concordia College Alabama McWane Science Center, Birmingham

The BioTeach program in cell and molecular biology offers high school teachers a high level of content knowledge, hands-on research, teaching experiences, and training in inquiry-based methods for science education. In recent years, we have also accepted a few outstanding middle school teachers into BioTeach, and we expect to continue doing so. The project is a summer classroom experience and with additional sessions during the school year. The project also continues training for Alabama Black Belt teachers to provide that area with highly-trained biology teachers. BioTeach includes Alabama Science in Motion (ASIM) modules facilitated by ASIM specialists and linked to implementing inquiry-based experiences. Mentoring during the academic year unites BioTeach teachers to craft "best practices" for Alabama science classrooms, and educational class trips to the GENEius Lab in Birmingham's McWane Science Center to facilitate state-of-the-art science education. In past years BioTeach has enabled over 350 Alabama high school teachers to provide cutting-edge science education to their students, and the 2014-2015 edition of BioTeach will continue this tradition.

Project Director: Dr. J. Michael Wyss, Professor and Director

Address: Center for Community Outreach Development (CORD)
933 19th Street South
Birmingham, AL 35294-2041

Telephone: (205) 934-5171 **FAX:** (205) 934-5158

E-mail: jmwyss@uab.edu

Internet: www.uab.edu/cord

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BioTeach Session Dates (Subject to Change):

June 9-27, 2014 (Summer Session)
September 13, 2014 (Saturday Session)
October 11, 2014 (Saturday Session)
November 15, 2013 (Saturday Session)

Location:

Birmingham: McWane Science Center

BioTeach Express Session Dates:

July 7-11, 2014 [tentative]

Location:

Selma: Concordia College Chemistry Lab
and Lecture Room

University of Alabama in Huntsville (UAH)

The Success Through Academic Research (STAR) Project: The Independent Study Scholarship Program

University Partners	High-Need School District Partner*	Other School District Partners
Department of Education Institute for Science Education	Scottsboro City	<i>Depending on available space, other school districts may become partners.</i>

The STAR Project provides a limited number of independent study scholarships to meritorious teachers in a high-need school district. The scholarships are provided for independent research to enhance subject-matter expertise and teaching effectiveness. Administered by the UAH Department of Political Science and the Intensive Language and Culture Program, this year's partnership consists of the Scottsboro City School System as well as personnel from the arts and sciences at UAH. The school district identifies teachers from the system's schools who meet minimal criteria of excellence and invites them to apply for a STAR scholarship of up to \$3,300 each. Scholarships for teachers in the partner school district are awarded in core subjects for well thought-out and carefully planned individual research projects. The program also includes teacher mentors as well as follow-up assistance throughout the academic year as the teachers apply newly acquired content knowledge and other benefits of their study programs. If space becomes available, applications from teachers in other Alabama school districts are accepted.

Project Director: Dr. John R. Pottenger, Chair

Address: Department of Political Science
Morton Hall 250
University of Alabama in Huntsville
Huntsville, AL 35899-0001

Telephone: (256) 824-6192 **FAX:** (256) 824-6949

E-mail: pottenj@uah.edu

Independent Study Dates and Locations:
Varies by teacher and study program

Followup Session:
Spring 2015 [Date and Location TBA]

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**University of South Alabama (USA)
Alabama Institute for Education in the Arts (AIEA)**

Comprehensive Arts Education: Alabama

University Partners	High-Need School District Partners*	Other School District Partners	Other Partners
College of Arts and Sciences College of Education	Mobile County Montgomery County Selma City	Baldwin County	St. James School, Montgomery Alabama Shakespeare Festival Montgomery Museum of Fine Arts

Comprehensive Arts Education provides training in each of four arts with arts-specific learning goals: music, theatre, visual art, and dance. This is the only statewide comprehensive arts education professional development program offering sequential and intensive instruction in comprehensive arts education along with training in curriculum development and arts education advocacy. Highly qualified university faculty, nationally recognized teaching artists, and master teachers provide instruction and mentoring in the individual classrooms. Follow-up training is conducted throughout the year. Project staff assures that all work is directly tied to national and state curriculum standards reflecting best practices identified in research.

Project Directors: Dr. Jeannette Fresne, Associate Professor, USA
Martha Lockett, Executive Director, AIEA

Address: USA Arts in Education (AiE): AIEA:
Department of Music Alabama Institute for Education
University of South Alabama in the Arts (AIEA)
5751 USA Dr. S., LPAC 1072 One Festival Drive
Mobile, AL 36688-0002 Montgomery, AL 36117-4605

Telephone: (251) 460 6697 [Fresne] (334) 396 2432 [Lockett]

E-mail: jfresne@southalabama.edu [Fresne] mlockett@att.net [Lockett]

Internet: <http://www.southalabama.edu/music/artsineducation>
<http://www.artseducation.org>

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AIE Session Dates:

Arts in Education: Elementary (AiE)

September 13, 2014
October 11, 2014
November 1, 2014
December 6, 2014
January 17, 2015
February 7, 2015

Arts in Education: Middle School (AiE)

June 23-26, 2014
October 18, 2014
January 24, 2015

Arts in Education (AiE): Reunion Retreat

February 14, 2015

AiE Elementary and Middle School Mentoring Dates:

Scheduled individually between instructors and program participants. Six one-hour mentor visitors per participant during the program.

AIEA Session Dates:

Alabama Institute for Education in the Arts (AIEA)

Summer Institute:
June 16-20, 2014

ACES for Students: (Dance & Music/Theatre)

Teaching Artists in K-5 classrooms
one-hour lesson per week each creating and leading student and teacher-driven lessons designed to address literacy and numeracy through the arts
Sept. 2014 through April, 2015

AIEA SuperSaturdays:

Four sessions throughout the year focusing on specific art disciplines and integrating the arts with other core academic areas. [Dates TBA]

AIEA Site Visits:

Scheduled individually between instructors and program participants from September 2014 through April 2015

Location:

Mobile (all sessions)

Location:

Montgomery (all sessions)