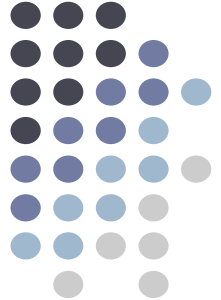


ALABAMA COMMISSION ON HIGHER EDUCATION

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



PROJECT DIRECTORY
FISCAL YEAR
2012-2013

**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 2012-2013***

Under authority of Public Law 107-110, the Alabama Commission on Higher Education (ACHE) is awarding a total of \$969,570 federal funds to Alabama institutions of higher education for professional development in grades K-12. The funding continues long-term projects that were awarded FY2011-2012 grants. Receiving these grants are six public universities and one state community college. 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 others 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 usually includes one-day workshops during the school year and on-site observation/assistance visits to teachers in their schools. In addition, projects typically 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 2012-2013 funding are active from spring 2013 through spring 2014.

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

TABLE OF CONTENTS

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

Athens State University
AMSTI Lead Teacher Enhancement Project
(Alabama Math, Science, and Technology Initiative) 2

Jacksonville State University
AMSTI Lead Teacher Enhancement Project
(Alabama Math, Science, and Technology Initiative) 3

University of Alabama in Huntsville
AMSTI Lead Teacher Enhancement Project
(Alabama Math, Science, and Technology Initiative) 4

II. Multi-Year Projects

Snead State Community College
IMPACTSEED: Improving Physics and Chemistry Teaching
in Secondary Education 6

Troy University – Dothan Campus
Wiregrass Math, Science, and Technology
Leadership Academy 8

The University of Alabama
Physical Science in the 21st Century:
Improving Teacher Quality and Mastery of Content 9

University of Alabama at Birmingham
ALAHASP 2012-2013 (ACHE Fiscal Year 2011-2012):
Alabama Hands-On Activity Science Program 10

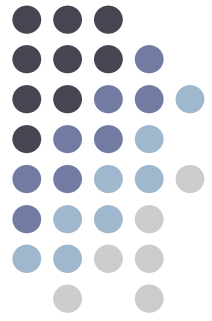
University of Alabama at Birmingham
The University-School Partnership
for Secondary Science Advancement (“BioTeach”) 11

University of Alabama in Huntsville
The Success Through Academic Research (STAR) Project:
The Independent Study Scholarship Program 13

The University of South Alabama /
Alabama Institute for Education in the Arts
Comprehensive Arts Education: Alabama 14

I.

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



Athens State University (Athens)

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 Regional In-Service Center Alabama Technology in Motion Alabama Science in Motion	Athens City Cullman 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 Course of Study standards. Special focus is directed to implementing curriculum reform in mathematics as outlined in the Alabama College and Career Readiness Standards. 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. Ongoing Assessment Project (OGAP) training in either multiplicative or fractional reasoning is offered to the participating schools based on their grade level needs.

Project Director: Carrie S. Lin
AMSTI Director

Telephone: (256) 216-6622

FAX: (256) 216-6623

E-mail: carrie.lin@athens.edu

Session Dates:
Phase I PLT Training
May 2, 2013

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

Phase II Content Deepening
July 31-August 2, 2013
August 5-8, 2013

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 Roanoke 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 Course of Study 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) 847 8835
Email: tbarnes@jsu.edu

Session Dates:
April 5, 2013
April 19, 2013

Location:
JSU Regional In-Service Center

* 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.

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 Huntsville City Marshall County	Albertville City Fort Payne City Jackson County Madison 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: Ms. Carol Mueller
Institute for Science Education

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

E-mail: muellerc@uah.edu

Session Dates: Projected: October, November 2013
(Dates TBA)

Location: Ft. Payne (site 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.



II.

Multi-Year Projects

Snead State Community College

IMPACTSEED: Improving Physics And Chemistry Teaching in Secondary Education

College Partners	High-Need School District Partners*		Other School District Partners	
Division of Natural Sciences Division of Social Sciences	Anniston City Cherokee County DeKalb County Guntersville City Jacksonville City Marion County Marshall County Morgan County	Oxford City Pell City Piedmont City Russellville City Scottsboro City Talladega County Tuscumbia City Walker County	<u>Public:</u> Albertville City Attalla City Baldwin County Blount County Boaz City Calhoun County Clay County Cleburne County <u>Private:</u> Marshall Christian Academy, Albertville	Colbert County Cullman County Etowah County Jackson County Jefferson County Lamar County Madison County St. Clair County

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: Division of Natural Sciences
 Snead State Community College
 P. O. Box 734
 Boaz, AL 35957-1650

* 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.

Telephone: (256) 782-8077

FAX: (256) 782-5336

E-mail: nouredine.zettili@snead.edu

Internet: <http://www.snead.edu/impactseed/>

Session Dates:

Summer Institute:

June 10-21, 2013

Technology workshops:

Five School-Year Saturdays [Dates TBA]

Location:

Snead State Community College

Elrod Science Building

Troy University–Dothan Campus (TUD)

Wiregrass Math, Science, and Technology Leadership Academy

University Partners	High-Need School District Partner*	Other Partners
College of Arts and Sciences College of Education	Geneva County	Wiregrass Math and Science Consortium

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
College of Arts and Science
Troy University-Dothan Campus
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 19-21; 24-25, 2013

Location:
Troy University- Dothan

Follow-up Dates
November 9, 2013
February 8, 2014

* 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.

The University of Alabama (UA)

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

University Partners	High-Need School District Partners*
College of Arts and Sciences College of Education	Bessemer City Schools Birmingham City Schools Choctaw County Dallas County Schools Marengo County Schools Marshall County Schools Walker County Schools

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 in the interim periods. The physical science content focus is on advanced study of concepts aligned with the Alabama Course of Study – Science: refraction & reflection, lenses and mirrors, color and light, polarization of light, electricity and magnetism, periodic trends of elements, formation of ionic and covalent bonds, chemical reactions and writing equations with both the physics and chemistry basis of the concepts presented. Using technology in teaching physical science is also a component of the project with a focus on collecting data using sensors, Web 2.0 tools, simulations, use of Apps in the classroom, and combining Institute instruction with assistance at teachers’ school sites. Working with other teachers in a professional learning community and developing master lessons and trial teaching are also emphasized. Inquiry teaching strategies to foster students’ higher order thinking is woven throughout the project’s institutes.

Project Director: Dr. Dennis W. Sunal, Professor
Address: Department of Curriculum and Instruction
 205C Graves Hall
 Tuscaloosa, AL 35487-0232
Telephone: (205) 348-6050 **FAX:** (205) 348-9863
E-mail: dwsunal@bama.ua.edu
Internet: <http://ps21pd.weebly.com/>

Session Dates: (subject to change)
 September 27, 2013
 Friday, November 1, 2013
 Friday, January 31, 2014
 Friday, March 14, 2014

Location:
 UA Tuscaloosa Campus
 3408 Science and Engineering Complex

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

* 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.

University of Alabama at Birmingham (UAB)

ALAHASP 2013-2014: Alabama Hands-On Activity Science Program

University Partners	High-Need School District Partners*	Other School District Partners	Other Partners
School of Education College of Arts & Sciences Center for Community OutReach Development (CORD)	Chilton County Gadsden City Leeds City Selma City	Homewood City Hoover City Mountain Brook City Vestavia Hills City Diocese of B'ham	Carolina Biological Supply Company McWane Science Center Tractor & Equip Co. (TEC)

ALAHASP is an inquiry-centered, hands-on science program that provides on-going teacher and administrator professional development aligned with state and national science education standards. The primary focus is providing public and private school teachers with instruction firmly grounded in science content and research-based best practices in order to improve student understanding. External evaluation of previous work shows significant gains in content knowledge for teachers participating in ALAHASP workshops, as well as increased confidence in teaching science. Program objectives are to provide (1) guidelines and assistance to school system administrators conducting their own professional development in K-5 science curriculum modules for teachers in non-AMSTI schools, (2) technical assistance to selected teachers in implementation of science curriculum through partnerships with UAB science and technology students, (3) advanced teacher professional development in science education (including The Private Eye® process), and (4) guidance and professional development for school system administrators.

Project Director: Dr. J. Michael Wyss, Director
Center for Community OutReach Development

Co-Directors: Joan Dawson; Beverly Radford

Address: College of Arts & Sciences, EB 121
1720 2nd Avenue South
Birmingham, AL 35294-1250

Telephone: (205) 934-6885 **FAX:** (205) 996-7081

E-mail: jmwyss@uab.edu / jdawson@uab.edu / bevrad@uab.edu
 [Wyss] [Dawson] [Radford]

Internet: <http://www.uab.edu/alahasp>

Project Dates: View the ALAHASP website or call/e-mail the ALAHASP staff for schedules.

* 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.

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	Jefferson County	Wallace Community College Selma/ Alabama State University, AMSTI Concordia College Alabama McWane Science Center, Birmingham

The BioTeach program in cell and molecular biology offers sixteen high school teachers a high level of content knowledge, hands-on research, teaching experiences, and training in inquiry-based methods for science education. The project includes a four-week summer classroom experience and with additional sessions during the school year. The project also continues "BioTeach Express" to train Alabama Black Belt teachers in a course parallel to BioTeach. Training will be linked to the implementation of 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 300 Alabama high school teachers to provide cutting-edge science education to their students. It continues in school-year 2013-2014 to provide cutting-edge science education.

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) 934-5198 **FAX:** (205) 934-5158

E-mail: jmwyss@uab.edu

Internet: www.uab.edu/cord

* 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.

BioTeach Session Dates:

June 3-28, 2013 (Summer Session)
September 14, 2013 (Saturday Session)
October 12, 2013 (Saturday Session)
November 16, 2013 (Saturday Session)

BioTeach Express Session Dates:

July 8-19, 2013 [tentative]
July 22-26, 2013 [implementation
with students]

Location:

Birmingham: McWane Science Center

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	Mobile County	<i>Depending on available space, other school districts may become partners.</i>

Each year the STAR Project partners with a high-need school district to award a limited number of independent study scholarships to meritorious Alabama K-12 teachers. The scholarships are provided for independent research to enhance subject-matter expertise and teaching effectiveness. Administered by the UAH Office of International Programs and Services, this year’s partnership consists of the Mobile County School System as well as personnel from the arts and sciences at UAH. The Mobile County School System 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 \$3,000 each. Scholarships for teachers in the partner school district are awarded in all 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, Director

Address: Office of International Programs and Services
Madison Hall, Room 137
University of Alabama in Huntsville
Huntsville, AL 35899-0001

Telephone: (256) 824 6055 **FAX:** (256) 824 6142

E-mail: pottenj@uah.edu

Independent Study Dates and Locations:

Varies by teacher and study program

Follow-up Session:

Spring 2014 [Date and 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.

AIEA Session Dates:

Alabama Institute for Education in the Arts (AIEA)

Summer Institute:

June 17-21, 2013

ACES for Students: (Dance & Music/Theatre)

Teaching Artists in K-1 & 2-3 classrooms

one day per week each creating and leading

student and teacher-driven lessons designed

to address literacy and numeracy through the arts

Sept. 2013 through April, 2014

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 2013 through

April 2014

AIE Session Dates:

Arts in Education: Elementary (AiE)

September 21, 2013

October 19, 2013

November 2, 2013

November 16, 2013

December 7, 2013

January 11, 2014

Arts in Education: Middle School (AiE)

June 24-27, 2013

August 24, 2013

October 26, 2013

Arts in Education (AiE) Reunion!

January 25, 2014

AiE Elementary and Middle School Mentoring Dates:

Scheduled individually between instructors and

program participants from July 2013 through March

2014

Location:

Montgomery (all sessions)

Vaughn Road ES, Montgomery

Location:

Mobile (all sessions)