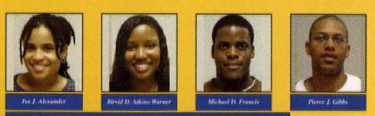
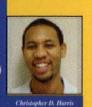
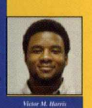
THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

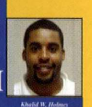


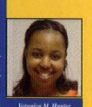
THE UNIVERSITY OF ALABAMA HUNTSVILLE

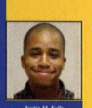
THE UNIVERSITY OF ALABAMA

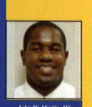






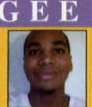


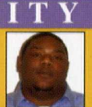


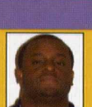


AUBURN UNIVERSITY

TUSKEGEE UNIVERSITY







The National Science Foundation
ALABAMA
LOUIS STOKES ALLIANCE

BRIDGE TO THE DOCTORATE

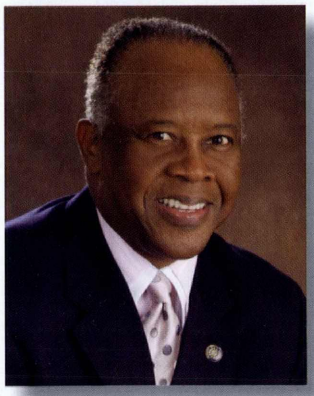
IMPACT

President Carol Garrison

Our experience with the BD program has shown that this program is attractive to underrepresented minority students. Given that students' financial earning power is increased by the acquisition of a graduate degree, it is becoming increasingly easier for students to make the decision to pursue graduate studies. The BD program provides an excellent incentive for highly qualified students to pursue graduate studies with a doctoral degree as a goal.

Louis Dale, Ph.D., Principal Investigator

Dr. Louis Dale



Bridge To The Doctorate (BD) Activity

A. James Hicks, Ph.D., Senior Program Director

Senior-level LSAMP alliances are eligible for Bridge to the Doctorate (BD) support. BD funding provides eligible students with financial support for two years of graduate study.

Programmatic activities for BD support must describe effective recruitment and retention strategies in STEM graduate education and must be based on current research for attracting, retaining, educating and graduating the participants. Proposers must provide documentation of past performance at the designated graduate institutional site of retaining, graduating and placing significant numbers of LSAMP graduates into STEM doctoral-degree programs. A plan for formally connecting a significant number of newly matriculated LSAMP students, including master's degree graduates, to doctoral degree programs is expected.

Successful projects must demonstrate substantive and formal connection to other NSF-funded programs, such as Centers of Research Excellence in Science and Technology (CREST), NSF research centers, Integrative Graduate Education and Research Traineeship Program (IGERT), Graduate Teaching Fellows in K-12 Education Program (GK-12), and the Alliance for Graduate Education and the Professoriate (AGEP). Successful BD projects must ensure that a substantive number of first year BD participants apply to NSF's Graduate Research Fellowship Program (GRFP). Similarly, BD applicants must present an action plan describing dollar support and sources for continuing students in years three and beyond towards doctorate degrees. Action plans identifying strategies for connecting the transfer of third-year BD recipients interested in and eligible for admission to AGEP graduate programs, if available, or other graduate programs, are required.

Recruitment of students is expected from all STEM disciplines. A concentration of students in one discipline within a cohort is strongly discouraged.

Tracking of project participants into doctoral degree programs and into the workforce, including the professoriate is also expected. Other highly valued activities include regular BD meetings, mentoring of students, resources to support annual student participation at professional meetings, seminars on productive academic efforts, demystifying degree programs and available career options. A critical mass of twelve (12) LSAMP STEM graduate students is required under this activity.

The NSF contribution to graduate student stipends is $60,000 over two years for each of the twelve students. NSF will provide a cost-of-education allowance to the institution for tuition, health insurance and other normal fees up to $10,500 per year for up to two years for each of the twelve students. A flat allowance of $15,000 per award may also be requested in lieu of indirect costs.

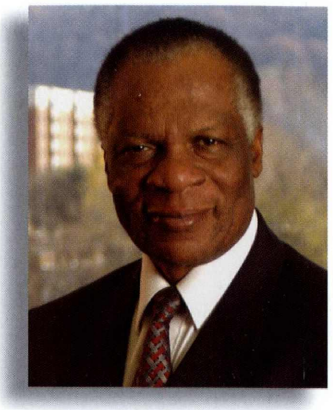
BD proposals must include an evaluation plan. Costs for project evaluation from the flat allowance are allowable. Salary support for administrative personnel is unallowable under this funding opportunity. The maximum request per alliance for BD support is $987,000.

All BD student support costs, including graduate stipends, should be listed on Line F, "Participant Support," on the proposal budget. All students receiving stipends must be citizens or permanent residents of the United States or its possessions.

IMPORTANT NOTE: Requests for BD support must be submitted as a new proposal in FastLane. Supplemental requests will be returned without review. BD proposals must be submitted by the lead institution of the LSAMP alliance. Successful proposals will be awarded as two-year standard grants. Residual funds from BD grants may not be reallocated to other cohorts. Annual and final reporting requirements are applicable for BD awards.

The Alabama LSAMP Program Description

Louis Dale, Ph.D., Principal Investigator



The Alabama Alliance is composed of twelve (12) institutions consisting of seven (7) Historically Black Colleges and Universities (HBCU's) and five (5) majority institutions. The HBCU's are Alabama A&M University, Alabama State University, Miles College, Oakwood University, Stillman College, Talladega College and Tuskegee University. The majority institutions are The University of Alabama at Birmingham (UAB), Auburn University, The University of Alabama (UA), The University of Alabama in Huntsville (UAH) and the University of South Alabama (USA). These institutions represent public and private, large and small and teaching and research colleges and universities. Each partner institution has a site coordinator and a management committee to implement program activities on that particular campus.

The HBCU's have significant minority enrollment (near 100%), as well as a history of educating minority students but with limited resources. The majority institutions have an abundance of research scientists and state of the art research facilities but minority enrollments at these institutions range from 12% to 28%. The Alabama LSAMP brings these institutions together in a unique way. Students from the HBCU's participate in joint research activities at majority institutions and faculty from all institutions participate in research and faculty conferences. Majority institutions are able to attract more minority students into graduate programs and minority institutions are able to provide their faculty additional faculty development activities.

The alliance has a large pool of students who are prime candidates for the BD program. Moreover, it is a senior alliance that includes graduate school awareness activities at each of its partner institutions. These activities have been very successful in raising student interest in graduate school opportunities. Many students are ready to attempt graduate study, but are hesitant because of their desire to earn money and because graduate school is still an unknown quantity. The BD program meets the students' need to earn money since it provides a $30,000 annual stipend, thus making it an attractive program. Given that financial earning power is increased by the acquisition of a graduate degree and career options are greater, many minority students are making the decision to pursue graduate studies. This has been apparent during student recruitment for Alabama BD programs.

Alabama LSAMP has supported BD programs at five of its doctoral granting institutions as listed below:

Auburn University

Overtoun Jenda, Ph.D.
Site Coordinator

Tuskegee University

Shaik Jeelani, Ph.D.
Site Coordinator

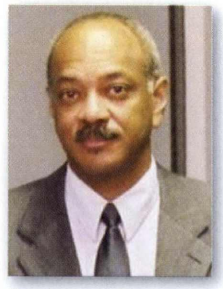
University of Alabama

Viola Acoff, Ph.D.
Site Coordinator

University of Alabama Birmingham

Carolyn Braswell, Ed. D.
Co-Principal Investigator

University of Alabama Huntsville



Adriel D. Johnson, Ph.D.
Site Coordinator
(Deceased)

The Bridge to the Doctorate (BD) program provides an excellent incentive for well-prepared students to pursue graduate studies with a doctoral degree as a goal. This outstanding opportunity has made it possible for many underrepresented minority students without resources to enter graduate school and earn a doctoral degree. The impact of the BD program will be felt for a long time, as most students complete coursework and dissertation research over different periods of time.

Bridge Program Summary

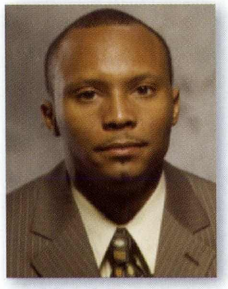
Cohort	I	II	III	IV	V	VI	VII	Total
Number of Students in Cohort	12	13	13	12	12	15	12	89
Number Received Ph.D. Degrees	5	0	1	0	0	0	0	6
Number in Ph.D. programs	2	6	5	8	9	7	12	49
Number Completing Dissertations	1	0	3	4	0	3	2	13
Number Completing Course Work	1	6	2	4	9	4	10	36
Number Received NSF or Other Fellowships	4	2	3	2	6	0	0	17
Number in the Workforce/Other Programs	10	7	8	4	3	8	0	40

Auburn University - Cohorts I and VI; UA Huntsville - Cohort II; UAB - Cohorts III and VII;
Tuskegee University - Cohort IV and UA - Cohort V

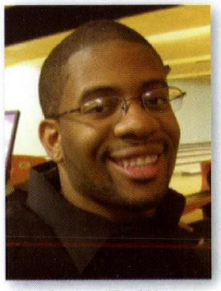
Alabama LSAMP BD Students Earning Terminal Degrees


Carma Cook


Kimberly Kendricks


Carl Pettis


Charmaine Porter


Kelvin Tolliver


Stephanie Watson

Bridge to the Doctorate Site – Auburn University

Dr. Overtoun Jenda
Site Coordinator

Auburn University is a comprehensive land, space and sea grant research institution blending arts and applied sciences. It has a long tradition of academic excellence and graduate education, awarding its first undergraduate degree in 1860 and its first graduate degree in 1870. The main campus had an enrollment during fall of 2007 of 24,137. Auburn University offers degrees in 13 schools and colleges at the undergraduate, graduate and professional levels. More than 1,100 graduate faculty members have terminal degrees from 150 universities. More than 90 buildings occupy a campus of southern charm graced with stately trees and abundant flowers. Auburn University has developed into one of the largest universities in the south, remaining in the educational forefront with its traditional blend of arts and applied science and changing with the needs of today while living with a respect for the traditions and spirit that are Auburn.

2003-2005

Angela Bell
Chemistry

Carma Cook
Chemistry

Derek Forston
Biological Sciences

Iris Hill
Conservation Biology

Angela Peterson
Mathematics

Nicole Harris
Materials Engineering

Carl Pettis
Mathematics

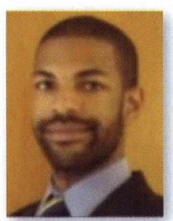
Charmaine Porter
Microbiology

Jana Smith
Molecular Biology

Michele Williams
Computer Science

2008-2010

Curtis Cain
Computer Science and Software Engineering

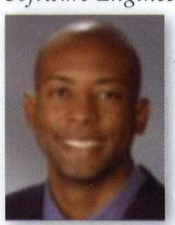


Jarrett Chapman
Industrial and Systems Engineering

Michael Grady
Electrical Engineering

Lenese Grant
Nutrition and Food Science

Brittany Green
Industrial and Systems Engineering



Colby Hunter
Microbiology

Cadavious Jones
Mathematics

David Laurencio
Biological Sciences

Cheryl Milton
Mathematics

James Morris-King
Computer Science

Timmy Sanders
Mathematics

Derek Simon
Mathematics

Kevin Simmons
Computer Science

Clarisa Williams
Statistic

Bridge to the Doctorate Site – The University of Alabama at Birmingham

Dr. Carolyn Braswell
Co-Principal Investigator

UAB is a 40-year-old comprehensive research university and medical center that encompasses 82 city blocks and has a student enrollment of more than 17,000. UAB also is home to a large graduate school, a world-renowned health care complex and more than 70 research centers, focusing on such diverse issues as AIDS vaccines and aging to the environment, urban affairs and telecommunications. UAB also offers numerous programs and services that enhance student education, including the Honors Program, Co-op Program, Study Away, Career Center and academic support services. With the city of Birmingham in their backyard, UAB students have enormous opportunity for internships, jobs and valuable hands-on experience. There are more than 200 organizations on campus ranging from academic clubs and volunteer groups to fraternities, sororities and special interest groups.

2005-2007

Michael Burks, Jr.
Computer & Information Science

Sheritta Cooks
Chemistry

Ajai Cribbs
Mathematics

Mellany George
Materials Engineering

Melody George
Materials Engineering

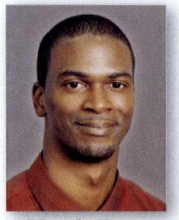
Hadiyah-Nicole Green
Physics

Christophe Jackson
Chemistry/Music

Christopher Lindsey
Electrical Engineering

Aqueasha Martin
Computer Science

Lindsey McCall II
Materials Engineering

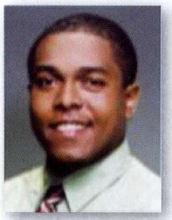


Hugh Percy
Computer Science

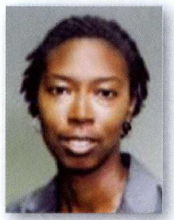
Stephanie Watson
Civil Engineering

2009-2011

Samantha Bromfield
Epidemiology



Cordero Core
Chemistry



Jaquice Hughes
Civil/Environmental Engineering

Samuel Jasper
Materials Science and Engineering

Tashundra Jones
Environmental Engineering

Alicia Kindred
Biology

Manuel Martinez
Physics

Dennis Steverson, Jr.
Pharmacology

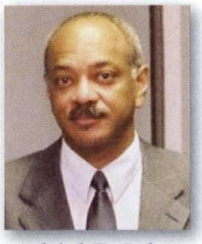
Glenn Terrell
Interdisciplinary Engineering

Desmond Villalba
Physics

Candace Watson
Civil Engineering

Kendrick White
Mathematics

Bridge to the Doctorate Site – The University of Alabama in Huntsville



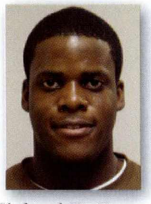
Dr. Adriel D. Johnson, Sr.
Site Coordinator

The University of Alabama in Huntsville (UAH) is nationally recognized for outstanding undergraduate and graduate science and technology education. Uniquely located in Cummings Research Park, a fundamental mission for UAH is to be a leader in the Southeastern US for high quality education in disciplines such as science, technology, engineering and mathematics (STEM). UAH has made the commitment to increase the number of minority students receiving baccalaureate and graduate degrees as an important priority at the university. UAH offers 26 master's degrees (18 in STEM areas), 12 doctoral degrees (four in STEM areas) and seven non-degree graduate certificates.

2004-2006

Isa J. Alexander
Biological Sciences

Birvid Atkins-Warner
Computer Science



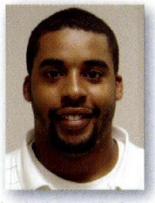
Michael D. Francis
Mechanical Engineering

Pierce J. Gibbs
Biological Sciences

Kimberly A. Green
Biological Sciences

Christopher Harris
Mechanical and Aerospace Engineering

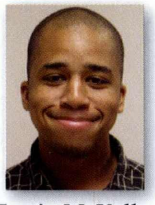
Victor M. Harris
Biological Sciences



Khalid W. Holmes
Biological Sciences

Veronica M. Hunter
Computer Science

Melody Y. Jackson
Mathematics



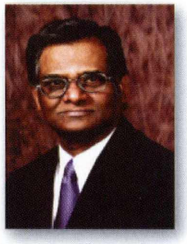
Justin M. Kelly
Computer Science

John W. Martin III
Aerospace Engineering

Eileen Rojas
Chemical Engineering

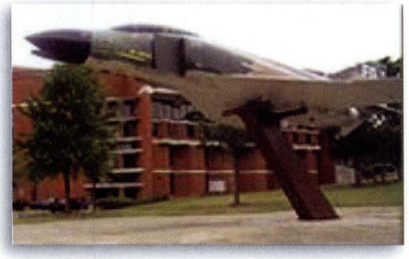
Tameka M. Walker
Chemistry

Bridge to the Doctorate Site – Tuskegee University



Dr. Shaik Jeelani
Site Coordinator

Tuskegee University is an independent state-related institution of higher education. Its programs serve a student body that is coeducational as well as racially, ethnically and religiously diverse. The university offers 49 degrees including 35 bachelor's, 11 master's, a doctor of philosophy in materials science and engineering, a doctor of philosophy in integrative bio-sciences, and a doctor of veterinary medicine. Tuskegee enrolls more than 3,000 students and employs approximately 900 faculty and support personnel. Physical facilities include more than 5,000 acres of forestry and a campus with more than 100 major buildings and structures. Total land, forestry and facilities are valued in excess of $500 million.

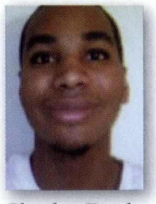


2006-2008

Sandrea Brundidge-Young
Materials Science & Engineering

Rozlyn Chambliss
Chemistry

Jennifer Cunningham
Biology



Charles Doxley
Electrical Engineering

Erica Hudson
Nutritional Science

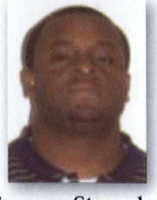
Kellee L. Jamerson
Environmental Science

Justin O. James
Electrical Engineering

Tracey Mindingall
Food Science

Sharina Richard
Animal Science/ Integrative Bioscience

CaLynna Sorrels
Electrical Engineering



Gregory Strawder
Materials Science and Engineering

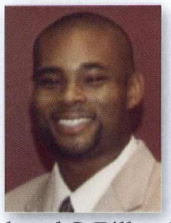
Tiffany Taylor
Chemistry/Biochemistry

Bridge to the Doctorate Site - The University of Alabama

Dr. Viola Acoff
Site Coordinator

The University of Alabama (UA) is a major, comprehensive, student-centered research university founded in 1831 as Alabama's first public college. Dedicated to excellence in teaching, research and service, we provide a creative, nurturing campus environment where our students can become the best individuals possible, learn from the best and brightest faculty, and make a positive difference in the community, the state and the world. Not only is UA the oldest public university in the State of Alabama but also, in 1837, UA became the first in the state to offer engineering classes. It was one of the first five in the nation to do so and one of the few to have maintained accreditation continuously since national accreditation began in 1936. The University of Alabama is the largest university in Alabama with an enrollment of 25,580, which includes 3,869 graduate students.

2007-2009



Edward C. Dillon, Jr.
Computer Science

Alanzo Deon Granville
Mathematics

Nicole Desireae Gray
Analytical Chemistry

Marleshia Hall
Molecular and Cellular Biology

Haylee M. Hinz
Biology

Melody Kelley
Chemistry

Contessa S. Majors
Cell Biology and Neuroscience

Ekaette Mbong
Biological Science

DeAna McAdory
Chemistry

Brandon R. Morgan
Mathematics

Kathryn Therese Picard
Evolutionary Biology

Rachel Roberts
Metallurgical and Materials Engineering

Bridge Students Successful in Securing Graduate Research Fellowships

1. Angela Bell, Ph.D. student at Auburn University, was a recipient of the NSF GK-12 Fellowship.
2. Carma Cook, Ph.D. student at Auburn University, was a recipient of the NSF GK-12 Fellowship and NSF Chemistry Research Fellowship.
3. Nicole Green, Ph.D. student at UAB, was the recipient of the National Physical Science Consortium Graduate Fellowship.
4. Kimberly Hobbs, Ph.D. student in the Biotechnology Science and Engineering program at UA Huntsville, was the recipient of the 2009 UNCF NASA H. J. Jenkins Fellowship ($30,500/yr for 3 years) for doctoral students.
5 Christophe Jackson, Ph.D. student at UAB, was the recipient of the NSF Graduate Fellowship award.
6. Melody Kelly, Ph.D. student at the University of Alabama, was the recipient of the NSF Graduate Fellowship award.
7. Kimberly Kendricks, Ph.D. student at Auburn University, was a recipient of the GK-12 Fellowship.
8. Kathryn Picard, graduate student at the University of Alabama, was the recipient of the NSF Graduate Fellowship award.
9. Ms. Tameka Walker, Ph.D. student in the Biotechnology Science and Engineering program at UA Huntsville, was a recipient of the American Chemical Society Fellowship ($26,000).