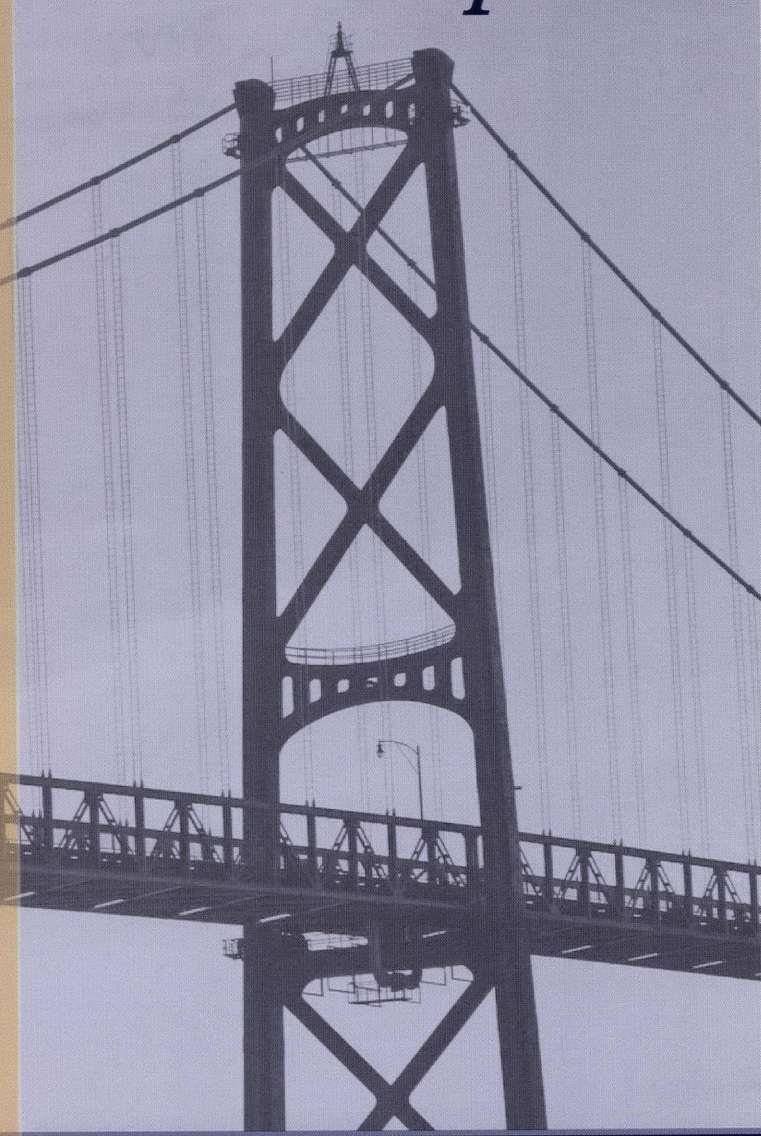
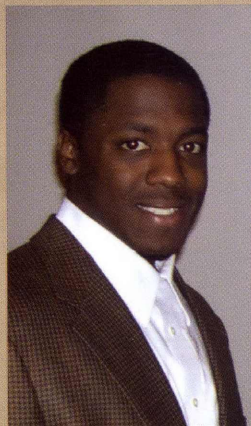


Louis Stokes Mississippi Alliance for Minority Participation's  
*Bridge to the Doctorate Program*

at Jackson State University

*Impact*



*Building a Secure Pathway to the Doctorate  
in Science, Technology, Engineering and Mathematics*

Through a grant from the National Science Foundation  
# HRD-0115807





# Bridge to the Doctorate Program

*Table 1: Bridge to the Doctorate Productivity*

Cohorts:	1	2	3	4	5	6	7
# of Students Funded	10	12	12	12	12	12	12
# of Bridged to Ph.D.	10	12	10***	10	8*		
# Earned Ph.D. to-date	4	1					
# left Ph.D. & entered workforce	0	4	2	1			
# Completing Dissertation	6	6	2				
# Completing Ph.D. Coursework		1	4	6	7		
# Joined workforce after MS Degree	0	0	2	4			
# Applying to Ph.D. Programs					4	12	
# Participated in International Programs	1	3	0	1	4	5	8**

Notes: \*Four of the students started in the spring semester and are currently applying to PhD programs  
 \*\*Eight students will be researching in China this summer, 2010.  
 \*\*\* Two dropped from program (too late to replace them)

The goal of the Louis Stokes Mississippi Alliance for Minority Participation (LSMAMP) Bridge to the Doctorate Program (BD) is to bridge LSAMP students who have received a baccalaureate degree in Science, Technology, Engineering or Mathematics (STEM) area into a STEM doctoral program.

Funds are provided for the first two years of graduate study through a grant received from the National Science Foundation. The objective of this grant is to broaden participation of under-represented students in STEM disciplines. It seeks to remove students' hesitancy about entering graduate school and the fear of creating financial indebtedness.

Assessment of our data and records of accomplishments are summarized in Table 1 and more details are shown in subsequent pages. The BD students' career outcomes as of the end of 2009 show that 91% of the students in Cohorts 1 through 4 were admitted in Ph.D. programs.

In Cohort 5, eight (8) students have been admitted into Ph.D. programs and four (4), who started one semester late, have applied to doctoral offering institutions and are expected to start during fall 2010. Also, members of Cohort Six are currently applying for Ph.D. admission, and we expect 100% success. Cohort 7 students are progressing well and are currently applying for summer internships. Eight students from this latest Cohort have also been selected to travel to China this summer for research.



# Bridge to the Doctorate Program

Students receive a stipend along with full graduate tuition and fees, mentoring assistance, academic enrichment, and academic year and summer research experiences. They also receive assistance to travel to conferences and are involved in organizing workshops, seminars and speakers series involving scientists and engineers from across the country.

To be eligible for the Bridge to the Doctorate Program, applicants must have the following:

- proof of having been a LSAMP scholar at the undergraduate level
- a B.S. degree in a STEM major
- Minimum GPA of 3.0
- U.S. citizenship
- A commitment to pursuing a STEM doctoral degree
- Acceptance into Jackson State University Graduate School and STEM Department

Our BD Students have or are pursuing the Ph.D. at the following colleges and universities:

Albany Medical College  
Carnegie Mellon  
Emory University  
Georgia Institute of Technology  
Howard University  
Jackson State University  
Louisiana State University  
Louisiana Technical University  
Michigan State University  
Mississippi State University  
Princeton University  
University of Alabama Tuscaloosa  
University of Alabama Birmingham  
University of California  
Santa Barbara  
University of Florida  
University of Georgia  
University of Maryland  
Baltimore County  
University of Maryland  
Eastern Shore  
University of Michigan  
University of Mississippi  
University of Mississippi -  
Medical Center  
University of Nebraska  
University of Tennessee Memphis  
Vanderbilt University



*Cohort 2 Fellow, Kylie Nash, shown with her JSU Mentor, Dr. Loretta Moore, Chair of the Department of Computer Science.*



*Cohort 6 students enjoy a river cruise during their internship in China.*



# Bridge to the Doctorate Program

## Professional Development Activities

### During their first year, the students:

- Satisfy the required core courses of the degree program chosen and select their research advisor.
- Participate in a weekly Journal Club in which they read and present articles by leading scientists in their field of interest.
- Organize and conduct a Speakers' Series of renowned scientists, who spend time with and present to the Bridge Fellows and give a College-wide presentation of their research.
- Visit national or international laboratories, corporations and universities to experience scientific and technical workforce environments and to meet possible research advisors.
- Participate in a Laboratory Rotation through all of the multi-user core research laboratories.

### During the summer:

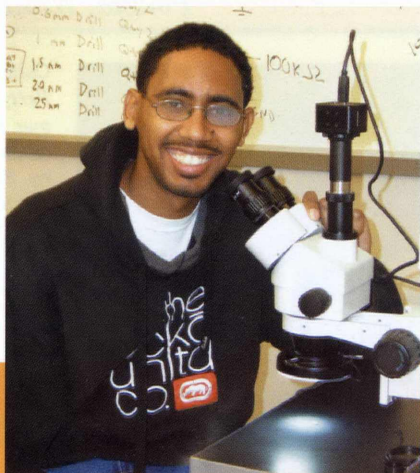
- Students complete a 12-week external research experience and present that research at a major national lab or university.
- During the summer and into the fall, students and their faculty advisors continually interact concerning their learning experiences and the initiation of research projects.

### During the second year:

- Students are dedicated to research, presenting their research at professional conferences, writing the MS thesis, preparing and submitting publications, taking specialized courses, applying for admission to a doctoral program and for fellowships.



*Cohort 6 Fellow, Tancia Boone shown with her mentor at UCSB, Dr. Linda R. Petzold*



*Cohort 6 Student, Chantain Greer (left), and Cohort 7's Jacqueline McComb (right) work on their research in their respective laboratories.*

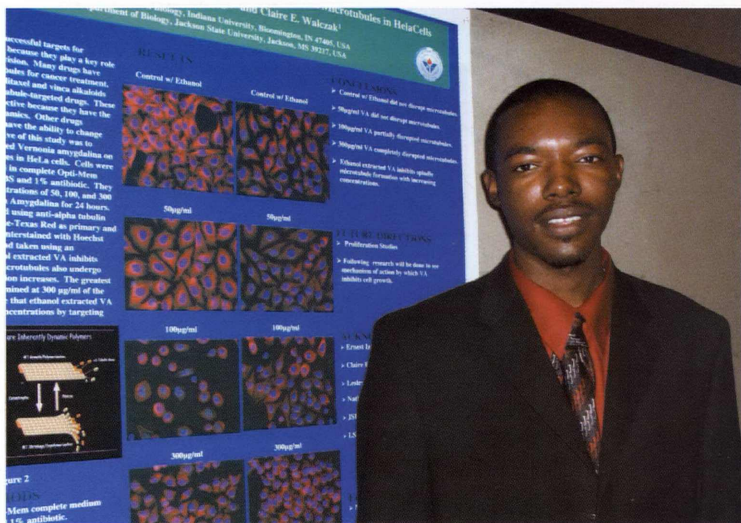




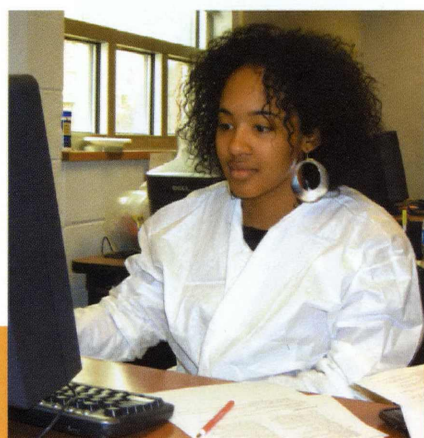
# Bridge to the Doctorate Program

## Professional Development Activities

During the summer the students are exposed to the scientific and technical workforce environments through internships with national or international laboratories and universities.



Cohort 6 Fellow, Brandon Hill, presents his research results at a national conference.



Cohort 7 Student, Kristen Lewis, works on her research in the Computational Chemistry Laboratory.

Table 2:  
BD Summer Research Experience

Partnering Institutions
Armed Forces Institute
Engineering Research & Development Center
Lawrence Berkeley National Laboratory
Lawrence Livermore National Laboratory
National Institutes of Health
University of Mississippi
University of California Berkeley
University of California San Francisco
University of California Santa Barbara
University of Southern California
University of Hawaii
US Army Research Laboratory
Indiana Univ. Purdue University of Indiana
China, Guilin, Guangxi Normal University
China, Nanning, Guangxi University
China, Xian, Shaanxi University
Poland, Wroclaw University



Cohort 3 Alumna, Canelda Perry, works on her Summer Research at University of California Santa Barbara. She is currently completing her Ph.D. coursework at the University of Nebraska.



# Bridge to the Doctorate Students

*Who Have Achieved Their Doctorates*



**Tomekia Simeon**  
May 2008

Jackson State University  
Computational Chemistry  
Currently serving a Post-Doc at  
Northwestern University



**Jelani Griffin**  
August 2009

Jackson State University  
Chemistry  
Currently serving a Post-Doc at  
Michigan State University



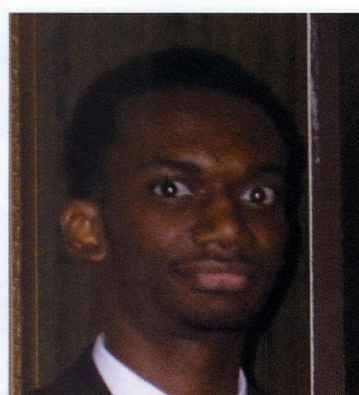
**Charity Mosley**  
August 2008

Jackson State University  
Chemistry  
Currently working for the Drug  
Enforcement Agency



**Brian Napoleon**  
December 2008

Jackson State University  
Computational Chemistry  
Currently serving a  
Post-Doc at  
Jackson State University



**Eric McClendon**  
December 2008

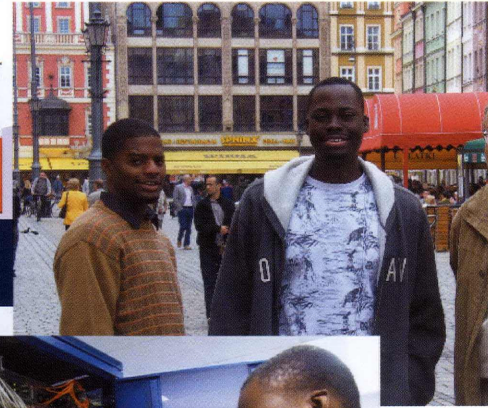
Jackson State University  
Chemistry  
Currently in MD Program at  
University of Mississippi Medical  
Center



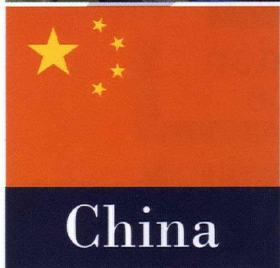
# Bridge to the Doctorate Students *International*



Poland



Japan



China





# l Conferences and Research Experiences



*Members of Cohort 7 on their way to Schaanxi Normal University in Xian, China, May 2010.*





# Bridge to the Doctorate Students

*Currently Completing Their Dissertations*



Najealicka  
Armstrong

Howard University  
Biochemistry &  
Molecular Biology



Erika Brown

Jackson State  
University  
Environmental  
Science



William Clay

University of  
California Santa  
Barbara  
Mathematics



Angela Fortner

Princeton  
University  
Chemistry



Samuel Haile

University of  
Maryland  
Baltimore  
Biology



Lenore Hicks

Jackson State  
University  
Organic  
Chemistry



Kylie Nash

MS State University  
Industrial  
Engineering



Shaneka Simmons

Jackson State  
University  
Environmental  
Science



Patrina Thompson

Jackson State  
University  
Computational  
Chemistry



Mekel Richardson

University of  
Tennessee Memphis  
Biomedical Sciences



Isi Tolliver

Vanderbilt  
University  
Biochemistry



Cornelius Toole

Louisiana State  
University  
Computer Science



Tyisha Traylor

Albany  
Medical College  
Neuropharmacology  
& Neuroscience



Jelani Zarif

Michigan State  
University  
Biology



# Bridge to the Doctorate Students

*Currently Completing Their Ph.D. Coursework*



Cortessia Badie

University of Alabama  
Birmingham  
Nursing



Tisha Brown

University of Mississippi  
Computer Science



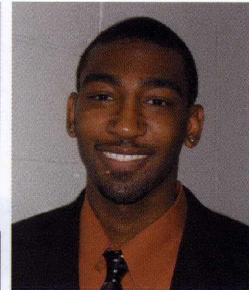
Teresa Demeritte

Jackson State University  
Chemistry



Eric Evans

University of Maryland  
Eastern Shore  
Marine Biology



Miquel Gates

Louisiana Tech  
Computer Engineering



William Hardy

University of Florida  
Chemistry



Stephanie Hughes

Carnegie Mellon University  
Molecular Biology



Vyvyca Jones

University of Michigan  
Chemistry



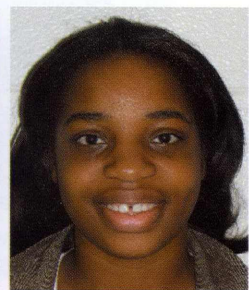
Danielle McShan

Jackson State University  
Chemistry



Caronda Moore

University of Nebraska  
Biology



Nancy Nkawanma

University of Georgia  
Biology



Wanda Payne

University of Mississippi  
Mathematics



Canelda Perry

University of Nebraska  
Biology



Justin Rice

Louisiana Tech  
Computer Engineering



Lungile Sitole

Jackson State University  
Chemistry



Jonathan Watkins

Jackson State University  
Environmental Science



Derrick White

University of Nebraska  
Biology



Jetaime Ross

Michigan State University  
Biology



# Bridge to the Doctorate Students

*Currently Applying to Ph.D. Programs*



Diahanna Hackett

Biology



Ricky McGruder

Computer  
Engineering



Kelisha Turner

Biology



Ivan Walker

Computer  
Engineering



Anthony Powell

Environmental  
Science



Lamarius Carter

Computer  
Engineering



William Johnson

Environmental  
Science



*Cohort 7 Student, Paxton Payton, a Biology major, shown working in his assigned laboratory.*



*Cohort 5 Student, Ivan Walker, is shown at an LS-MAMP National Research Symposium. Ivan has recently been accepted to a Ph.D. program at Georgia Institute of Technology.*



# Bridge to the Doctorate Students

*Summer Research Institutions- 2009  
Currently Applying to Ph.D. Programs and Fellowships*



Tancia Boone

University of  
California  
Santa Barbara  
Mathematics



Crystal Boston

Indiana University  
Computer Science



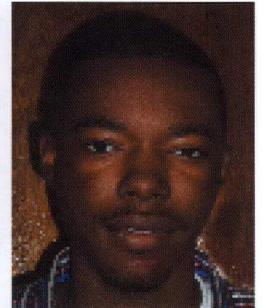
Centdrika Dates

University of  
California  
San Francisco  
Biology



Chantain Greer

Oak Ridge National  
Laboratory  
Computer  
Engineering



Brandon Hill

Indiana University  
Biology



Shantelle Hughes

Indiana  
University  
Chemistry



Mohamed Idris

Oak Ridge Nation-  
al Laboratory  
Computer  
Engineering



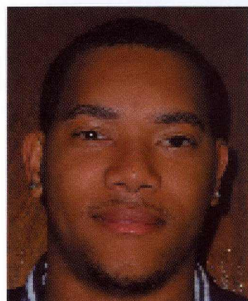
Rosalyn Johnson

Indiana University  
Computer Science



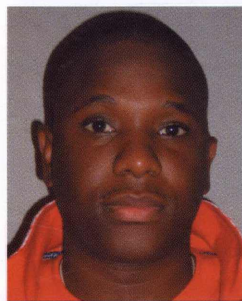
Jarvis McWilliams

ERDC  
Computer  
Engineering



Carvey Patterson

Biology



Camara Saikou

Indiana  
University  
Computer Science



Baraka Williams

University of  
California  
Santa Barbara  
Biology



# Bridge to the Doctorate Students

## *Cohort 7: Undergraduate Schools and Current Major*



Antoinette  
Anderson

Jackson State  
University  
Computer  
Engineering



Jessica  
Davis

University of  
Southern  
Mississippi  
Biology



Crystal Harris

Jackson State  
University  
Computer  
Engineering



Eric Hollman

Mississippi Valley  
State University  
Mathematics



Kristen Lewis

Tougaloo College  
Chemistry



Ales-cia Malone

Jackson State  
University  
Computer  
Engineering



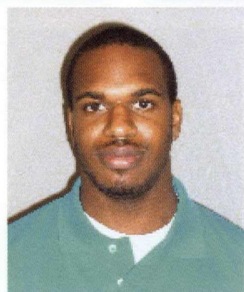
Jacqueline  
McComb

Alcorn State  
University  
Environmental  
Science



Terrance Moore

Jackson State  
University  
Computer Science



Paxton Payton

Alcorn State  
University  
Environmental  
Science



Nikeya Peay

Jackson State  
University  
Computer  
Engineering



Ashley Sanders

University of  
Southern  
Mississippi  
Mathematics





# Louis Stokes Mississippi Alliance for Minority Participation

Celebrating 18 Years of Increasing Minority Degrees Awarded in  
Science, Technology, Engineering and Mathematics



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*Oral and Poster Presentation Award Winners (from left to right): Will Gray III from the University of Southern Mississippi, Ivan Walker-Bridge to the Doctorate Fellow, Stephahie Hughes-Bridge to the Doctorate Fellow, Justin Evans from Jackson State University, Fayetteville State University, Mohamed Idris-Bridge to the Doctorate Fellow, Brandon Hill-Bridge to the Doctorate Fellow, Justin Evans, Fayetteville State University, Toyin Alli from the University of Mississippi and Renada Scott from Alcorn State University.*



*The student participants from the University of Mississippi at the annual LSMAMP Research Symposium along with their Program Manager Jackie Vinson (back second from right.)*



*Three young counselors for the LSMAMP Summer Bridge Program at Alcorn State University relax for a moment during the annual picnic meeting.*