

HBCU/Minority Educational Program Office

Oak Ridge National Laboratory

Mentor-Protégé Accomplishments with Jackson State University

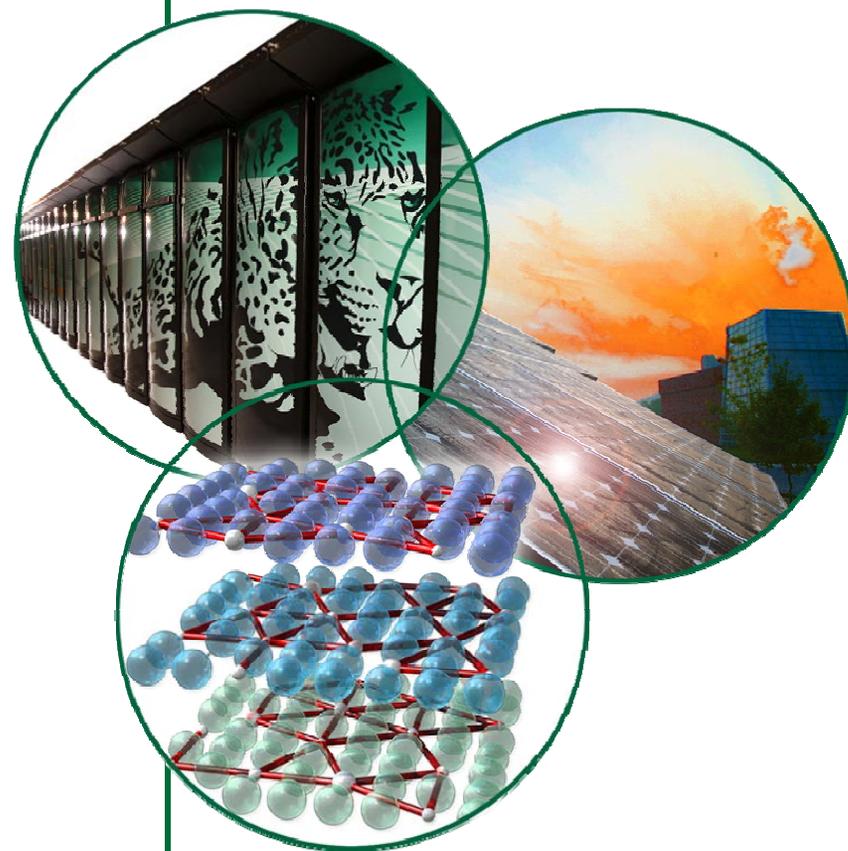
An Overview

Presented by:

Will Minter

Division Director

Manager, HBCU/MEI Program



April, 2009

Points of Contact

- Jackson State University
 - Dr. Ronald Mason, President
 - Dr. Felix Okojie, Vice President for Research Development Support and Federal Relations
 - Rita Presley, Associate Vice President for Research and Sponsored Programs
- ORNL Champions
 - Ben Thomas
 - Jerome Hicks
 - David Milan
 - Paul Ewing
 - Gary Jacobs
 - Dr. Brian Worley
- ORNL HBCU/Minority Education Program Office
 - Will Minter
 - Cassandra McGee Stuart

About Jackson State...

Jackson State University is an historically black college (HBCU) located in Jackson, Mississippi, the state capital.

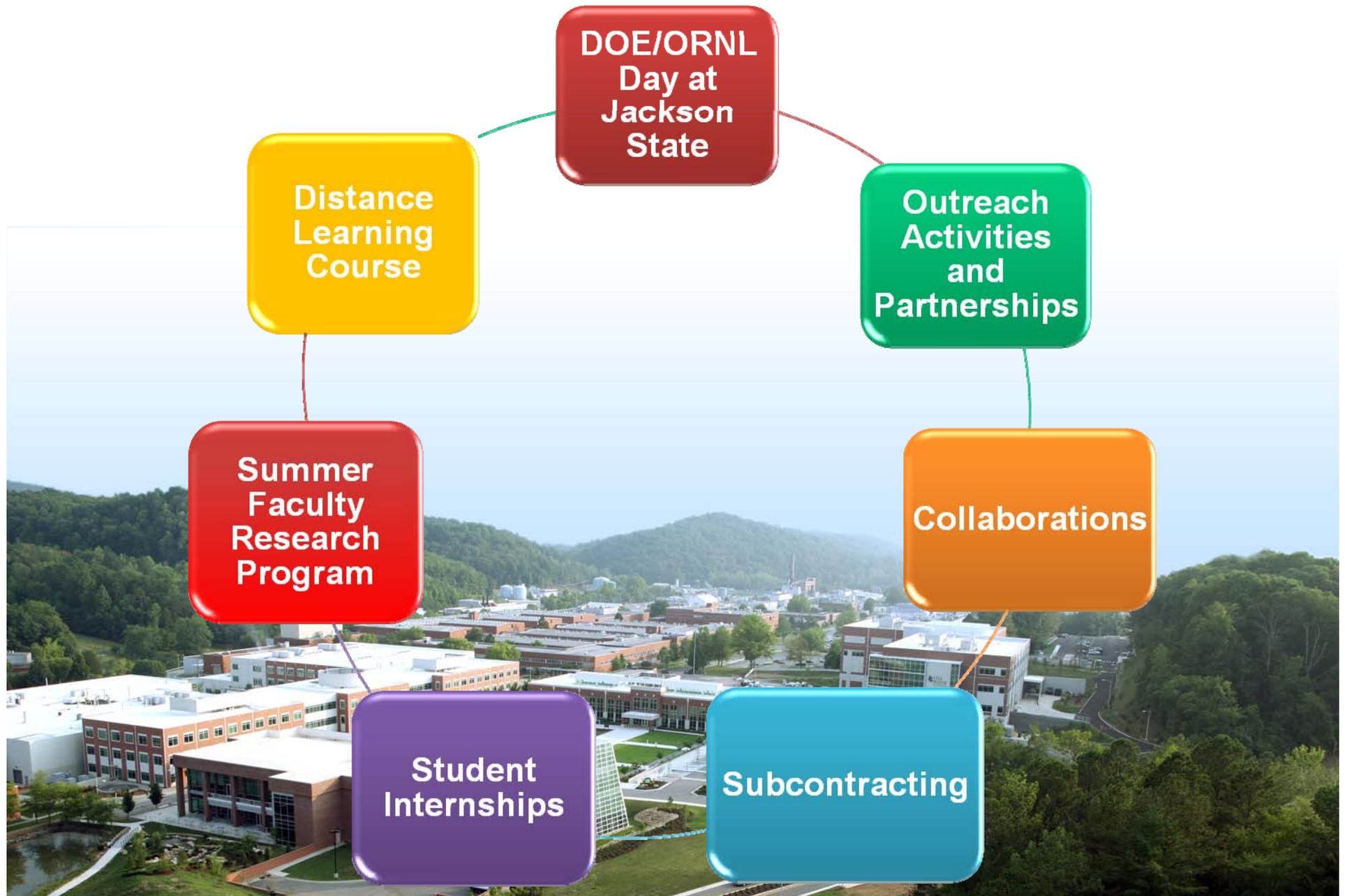
The student population is 8,500.

It is the 4th largest university in Mississippi, and the 7th largest HBCU in the United States.

From 1997 – 2006, the number of graduates from the College of Science, Engineering & Technology who have gone on to receive PhD's is 226.

In that same period, approximately 116 have earned MD's.

Key Initiatives



ORNL Signs Mentor-Protégé Agreement with JSU



Robert Brown, Deputy Manager, DOE/ORO; Dr. Ronald Mason, President, Jackson State; Dr. Thom Mason, Laboratory Director, ORNL; Will Minter, Division Director ORNL

Signing Ceremony at ORNL

January 23, 2008

Graduation: 2010

DOE/ORNL Day at Jackson State

Dr. Thom Mason
visits Jackson
State



Discussed joint initiatives
in JSU's areas of
expertise, including
Homeland Security,
chemistry and
environmental science



DOE/ORNL Day at Jackson State



CFO Greg Turner announced internships for JSU business students

Held roundtable discussions in the areas of Science & Technology and Business

Cynthia Lucius of Battelle Corporation led training on proposal development



Rita Presley, JSU
Cynthia Lucius, Battelle Corporation

Outreach Activities and Partnerships - Distance Learning

ORNL teaching High Performance Computing Class, via live videoconference, for Spring Semester, 2009

Taught to Morehouse College - Jackson State students also participating, along with Knoxville College

Increasing access to scientific information

More schools to participate in future courses



Outreach Activities and Partnerships

ORNL and Jackson State participate in the HBCU National Sponsored Programs Administrators Alliance (NSPAA)

As a result of interactions with Battelle Corporation executive Cynthia Lucius at DOE/ORNL Day at Jackson State, a JSU student has been placed in an internship at the National Biodefense Analysis and Countermeasures Center (NBACC), a Battelle National Biodefense Institute (BNBI)-operated laboratory in Maryland.

Collaborations

JSU Professor Dr. Jerzy Leszczynski has been awarded a collaborative research project with the Center for Nanophase Materials Science at ORNL. The work is titled, “Nature of Interaction between Fullerene (C60) and Nucleic Acid Bases and Base Pairs.”

ORNL and JSU are pursuing a collaboration in computational science with the National Science Foundation.

Collaborations

JSU Professor Dr. Raphael Isokpehi has been matched with ORNL Chief Scientist in Systems Biology, Dr. Brian Davison, for ongoing discussions in research collaborations.

Discussions continue with Dr. Hongtao Yu, JSU Chemistry Department Chairman, about the development of a "graduate student pipeline" program to bring JSU graduate students to ORNL for training.

Also being discussed is a proposal for faculty exchange visits and seminars.

Subcontracting

Jackson State has an ongoing contract with ORNL, for work in Emergency Operations Management and Disaster Response Systems.

FY2008 - \$1.9 million

FY2009 - \$1.7 million

A Basic Ordering Agreement for \$500,000 is in place with Jackson State that is intended to integrate the research expertise of ORNL and JSU to meet critical national security and homeland security priorities.

JSU Student Internships at ORNL

Undergraduate students Brandon Nelson and Kirpatrick Dorsey, presented findings on their research entitled “Technology Forecast for Broadband Communications.”



Kenneth Swan, completed his summer study at ORNL examining the “Wireless Traffic Density Counter” concept.

JSU Student Internships at ORNL



ORNL placed JSU Post-Master biology student, Cynthia Jeffries, in a year-long bioinformatics research internship at the laboratory, at the request of JSU Professor Dr. Raphael Isokpehi.

This was made possible through funding from the SERRI Program and Warren Edwards.

Summer Faculty Research Program

- Two JSU faculty members were awarded positions in the ORNL Summer Faculty Research Program, Dr. Abdelnasser Eldek, Computer Engineering, and Dr. Kamal Ali, Physics.

FY 08

Number of Participants: 30

Number of Institutions: 21

Number of HBCUs/MEIs 7



Future Initiatives Over the Next Two Years

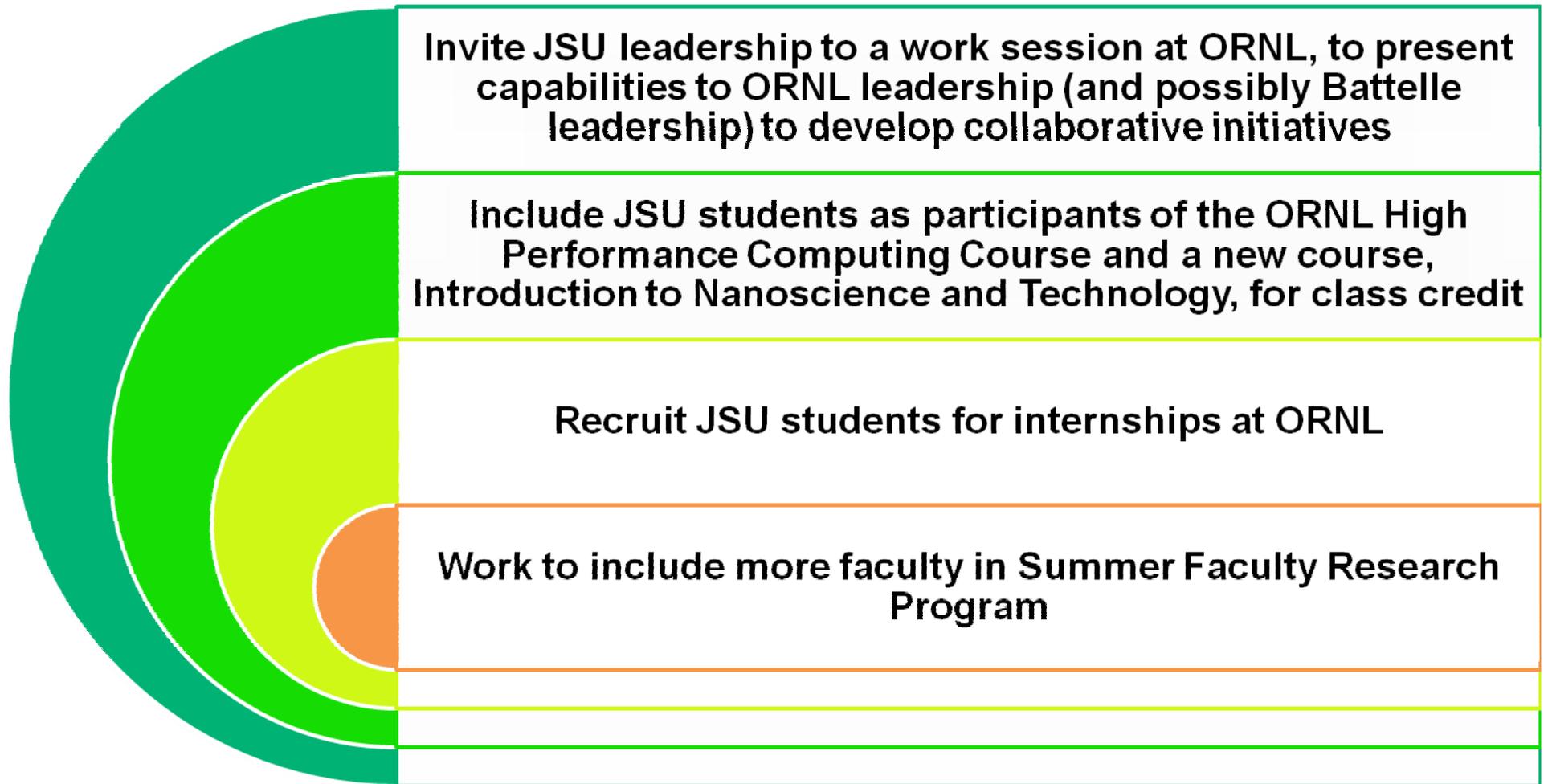
Capitalize on the Homeland Security initiatives that JSU is currently involved in to create more collaborative efforts with ORNL

Continue efforts with JSU faculty to develop a “student pipeline” to internships and other research opportunities at ORNL

Continue to work toward creating successful research collaborations

Include JSU as a partner on ORNL bids for research projects and other work

Future Initiatives Over the Next Two Years



Contact Information

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HBCU/MEI Website

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