Project Title

Preparing Tomorrow's Minority Task Force in Coastal Resilience through Interdisciplinary Education, Research, and Curriculum Development

Principal Investigator

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End User names	Roles in project	Interactions	Outcomes	Engagement Plans
Graduates Schools	Transition	Seminars; REU; Faculty research collaboration	2 students admitted to graduate schools in 2017	
Industry Partnerships: Everest Re insurance The Hartford	Transition	Seminar series; On-site visit; Internships; Early career opportunities	Summer internships. New course projects.	Continue the seminar series and strengthen the early talent programs.
Mecklenburg County GIS Service Charlotte-Mecklenburg Storm water Service	Collaboration	Provide quality geospatial data. Present how to to make data-driven decisions.	New GIS course and students research projects	Explore possible internship and full-time employment opportunities
ORAU	Collaboration	Annual meeting. Faculty proposals. ORNL virtual job fair	New proposals	Summer faculty research and students internships

End User names	Roles in project	Interactions	Outcomes	Engagement Plans
NASA	Transition Collaboration	NASA HBCU/MI Engagement Forum	NASA's Mentor-Protégé Program (MPP)	SBIR/STTR well as OE's grant and cooperative agreement opportunities.
U.S. Department of State	Grants	The Young Leaders of the Americas Initiative (YLAI) The Young Southeast Asian Leaders Initiative (YSALI)	promotes cross-border cooperation to solve regional and global challenges	Host fellows.
CRC Research Partners	Collaboration	Re-talk seminar series	New seminar course	Identify faculty collaboration opportunities
City of Charlotte	Collaboration	Community based applied research-Resilient Urban Dynamics	New research projects	Identify faculty collaboration opportunities

Education Work and Accomplishments

- Developed a new course ”Geographic Information System (GIS)”
- Developed a new minor in sustainability
- Developed a career-focused seminar course
- Hosted CRC Re-Talks and field trips
- Formed a interdisciplinary faculty research team from Biology, Psychology, Computer Science, Social Work, and Political Science. Using their discipline-specific expertise they discussed and reported the inter-connectedness of social-ecological systems (SES) at a local level
- Twenty students completed one-week DHS CRC Summer Camp in May 2017 at JCSU focusing on “Insights with visual and data analytics”
- Nine students worked with two faculty members completed four-week DHS CRC Summer Research Experienced at JCSU
- Several proposal has been fully developed and submitted to NSF, DoE, DHS, ORAU, and TMCF to leverage the resource and the impact.

Data Analysis of Haiti's Resiliency Post-2010 Earthquake
Ehije Idehenre, Cody Byrd, Jean-Marie Nshimiyimana
Advisor: Chen Hang, Ph.D.
Johnson C. Smith University, College of STEM
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Dr. Hang Chen, Dean of STEM, and Jean-Marie Nshimiyimana '17 teach students natural disaster management during a research camp funded by the Department of Homeland Security.
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Anticipated Project Impact

The program is designed to address the following objectives:

- Provide interdisciplinary experiential learning experience to prepare minority students for graduate studies and/or careers within the Homeland Security Enterprise (HSE);
- Enhance the academic, social and professional experience of minority students to foster a high rate of retention, graduation and critical transitioning to graduate studies and/or the HSE workplace;
- Develop research capacity of junior faculty, and strengthen the institutional environment and culture for research.

Sustainability / Institutionalization

- Align with the college's strategic direction
- The newly established minor is flexible and highly visible
- Secure additional fund for scholarships, REU and summer programs (NSF S-STEM, DoE MSEIP, DoE McNair)