ABOUT SOE

The School of the Environment (SOE) offers several innovative and exciting programs at Florida A&M University. The school is a multidisciplinary unit that offers a wide range of services to students, governmental agencies, private sector companies, communities and other organizations.

Our value for diversity is reflected in the faculty, students and staff that comprise the SOE. Consistent with the mission of FAMU, the SOE has a commitment to the training of African Americans and others underrepresented in the sciences, and is the largest producer of Black doctorates in the environmental sciences. We are sensitive to and keenly aware however, that having individuals of all racial and ethnic groups provides for an enriched and valuable experience for all.

The School's mission is to provide instruction, conduct research, engage in professional and community service on the local, national, and international levels, and facilitate technology transfer which will result in protection of the environment and the development of remedies for existing environmental problems; the education of communities on environmental science and policy issues; and the scientific and intellectual preparation of students who are uniquely prepared to address present and future interdisciplinary environmental science and policy issues.

FACULTY

Victor M. Ibeanusi, Ph.D., Dean, School of the Environment
Bioremediation; Water Quality; Industrial Ecology

Ashvini Chauhan, Ph.D. , Associate Professor
Environmental Biotechnology; Molecular Microbial Technology

Charles Jagoe, Ph.D., Distinguished Scientist
Aquatic and Coastal Ecology: Ecotoxicology

Elijah Johnson Ph.D., Associate Professor
Theoretical and Computational Chemistry

Frederick Essien, Ph.D., Associate Professor
Atmospheric Pollution; Environmental Radioactivity

Henry Williams, Ph.D., Professor
Microbial Ecology; Microbial Predation; Bacterial Predators

Marcia Allen Owens, J.D., Ph.D., Associate Professor
Environmental Policy & Law; Environmental Literacy

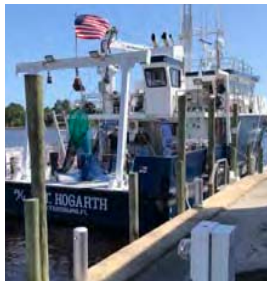
Michael Abazinge, Ph.D., Professor
Environmental Physiology; Bioconversion of Agricultural Waste

Michael Martínez-Colón, Ph.D., Assistant Professor
Coastal Ecology, Environmental Micropaleontology

Richard Gragg, Ph.D., Associate Professor
Environmental Toxicology; Policy and Risk Management

STAFF

Benjamin Mwashote, Ph.D., Laboratory Core Manager
Diane Hall, Coordinator, Academic Programs
Eda Garcia, Budget Coordinator
Hazel Taylor, Research Programs/Services Coordinator



FACILITIES

You will experience state of the art research facilities housed in approximately 6,000 square feet of space in the Humphries Science Reasearch Center. Insruments available to both faculty and students in this facility include ICP/OES, GC/MS, HPLC, AA, and high resolution gamma-ray spectroscopy with fiber optic access to the internet. In addition the School houses a GIS computer laboratory with high performance computers and high speed internet access. Laboratory equipment is continuously upgraded and replaced to maintain our cutting-edge status.

FINANCIAL SUPPORT

The school offers eligible Students support through scholarships and work-study assistantships. Students also have the opportunities for internships in industry, state, and federal laboratories.

FAMU SCHOOL OF THE ENVIRONMENT
FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

FOR MORE INFORMATION CONTACT US:
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Tel: (850) 599-3550 • Fax: (850) 599-8183

SCHOOL OF THE ENVIRONMENT

ENVIRONMENTAL SCIENCE

Ph.D. DEGREE

The **Ph. D. degree** program in the School of the Environment will prepare scientists to confront environmental issues which can be resolved only through innovative basic and applied research. The degree requirements are intended to ensure that all Ph. D. candidates develop independent and originality of thought and that students acquire in-depth knowledge in a specialized area of study and a broad knowledge base in environmental science in general. Completion of 80 semester hours of graduate level course work and research is required. The four basic components: (A) core courses (19 hours), to provide a fundamental understanding of environmental process, issues and policies; (B) concentration courses (12 hours), to provide necessary courses for specialization or later advanced studies, (C) dissertation (24) hours, and (D) a minimum of 25 hours of supporting courses.

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FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

DOCTOR OF PHILOSOPHY IN ENVIRONMENTAL SCIENCE

CORE COURSES

EVR	5260	Sources & Contr. of Enviro. Pollution	3
EVS	6885	Enviro. Research Design & Analysis	4
CHS	5610	Environmental Chemistry w/lab	4
EVR	6064	Principles of Ecology	3
EVR	5862	Enviro. Policy & Risk Management	3
EVS	5905	Env. Colloquium/Seminar *	2
Total			**19**

GENERAL COURSES

EVS	6980	Dissertation	var
EVS	6906	Directed Independent Study	var
EVS	6932	Special Topic	var
EVS	6913	Supervised Research	var

CONCENTRATION AREAS

ENVIRONMENTAL CHEMISTRY

CHS	5610C	Environmental Chemistry	3
CHS	5105	Radiochemistry I	3
CHS	5106	Radiochemistry II	3
GLY	5828	Subsurface Fate & Transport	3
EVS	5693	Radiation Instruments & Measurement	3
EVR	5260	Sources & Contl. of Enviro. Pollution	3
RHT	5130	Sources & Contl. of Radioact. Waste	3
RHT	5415	Radiological & Health Physics	3
EVS	5655	Waste Treatment and Disposal	3
EVS	5607	Environmental Radioactivity	3
EVS	5603	Site Characterization & Soil Survey	3
EVS	5027	Environmental Microbiology	3
RHT	5948	Special Topics in Radiation Protection	3
RHT	5210	Principles of Radiological Health	3
EVS	5673	Bioremediation Application & Tech	3
RHT	5326	Internal Radiation Dosimetry	3
EVS	6706	Fate & Transport of Enviro. Contam.	3
EVS	6705	Atmospheric Contam. Transport	3
EVS	6029	Comp. Methods in Enviro. Science	3
EVS	6815C	Chemical Separation Tech. w/lab	4

ENVIRONMENTAL POLICY AND RISK MANAGEMENT

EVS	5862	ENVIRO. REGULATIONS & REGULATORY	2
EVR	5863	ENVIRO. RESOURCE, ECONOMICS & POLICY	3
EVR	5864	ENVIRO. POLICY & RISK MANAGEMENT	3
EVR	5865	ENVIRO. RISK ANALYSIS	3
EVR	5866	PRINCIPLES ENVIRO. LAW PRACTICE	3
EVS	6887	MOLECULAR EPIDEMIOLOGY	3
EVS	6818	ECOLOGICAL RISK ASSESSMENT	3
EVS	6883	ENVIRONMENTAL DECISION MAKING	3
EVR	6265	REMOTE SENSING OF ENVIRONMENTS	3

AQUATIC AND TERRESTRIAL ECOLOGY

EVR	6064	Principles of Ecology	3
EVS	6818	Ecological Risk Assessment	3
EVS	6933	Adv. Topics in Aquatic & Terres. Ecol.	3

BIMOLECULAR SCIENCES

EVS	5028	Molecular Biology Techniques	3
EVS	5896	Environmental Biotechnologies	3
EVS	5027	Environmental Microbiology	3
EVS	5673	Bioremediation Appl. & Techniques	3
EVS	6798	Environmental Biosensors	3
EVS	6887	Molecular Epidemiology	3

** One hour course offered in the fall and spring semesters. All doctoral students, including those who have satisfied the minimum seminar requirements are expected to participate in the Research Seminar every semester except the semester in which they defend their dissertation.*

RESEARCH INTEREST

Our distinguished faculty members along with students and faculty from other institutes of higher education conduct research in the following areas:

- Aquatic Microbial Ecology Processes
- Environmental Microbiology of Water
- Distribution Systems
- Environmental Physiology
- Bioconversion of Agricultural Waste
- Wetland and Coastal Ecology
- Biogeochemistry
- Microbial Ecology
- Bioremediation
- Atmospheric Chemistry and Physics
- Contaminant Transport Modeling
- Environmental Restoration
- Environmental Toxicology
- Environmental Policy and Risk Management
- Biochemistry
- Ecological Risk Assessment
- Theoretical and Computational Chemistry
- Radiation Protection
- Environmental Radiochemistry

SCHOOL OF THE

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ENVIRONMENTAL SCIENCE

PH.D. DEGREE