



YOUR ADVANCE TEAM

WATER & WASTEWATER ENGINEERING

CAPABILITIES & EXPERIENCE

Dr. James Mark-Ige, Ph.D., P.E., Managing Principal
35+ Years of Water Infrastructure Leadership

DESIGN | ENGINEER | DELIVER

SBA 8(a) Certified • DBE Certified
Licensed P.E. Georgia & Virginia



DR. JAMES MARK-IGE, P.E., PHD.

A CAREER ARC ACROSS FULL WATER LIFECYCLE
DESIGN | CONSTRUCTION MANAGEMENT | OPERATIONS

Few engineers can claim mastery of water systems at every level. *Dr. Mark-Ige is one of them.* His career progressed through three distinct phases — engineering design, construction project management, and countywide operations — giving AEC clients a partner who understands not just how systems are designed, but how they are built, maintained, and operated in the real world. That end-to-end mastery is **the foundation of AEC's value as Your Advance Team.**

PHASE 1 Engineering Design

Led design of wastewater treatment systems across Fulton County facilities — technical drawings, hydraulic calculations, and permit documentation.

- Treatment process design & hydraulic analysis
- Permitting coordination & compliance documentation
- Engineering drawing production & QA review
- Wastewater treatment facility design standards

\$58M+ CMOM Program

PHASE 2 Construction Management

Served as Engineer-Project Manager overseeing construction of expansions, improvements, and repairs — from headworks to final effluent.

- Expansion projects design to commissioning
- Schedule, budget & contractor performance oversight
- Submittal, RFI, RFP & change order administration
- EPA/EPD conformance requirements

\$230M WWTP expansion

PHASE 3 Operations & Maintenance

Directed program for Fulton County's countywide sanitary sewer system — repair crews, cleaning operations, and CCTV inspection.

- Countywide sewer maintenance program management
- Sewer repair coordination & field crew oversight
- Hydraulic cleaning & CCTV inspection programs
- Asset management & capital repair prioritization

System-wide Program



YOUR ADVANCE TEAM — WHAT SETS AEC APART

WATER & WASTEWATER ENGINEERING EXPERTISE

AEC delivers water solutions across the full project lifecycle — from preliminary design and hydraulic modeling through construction oversight, EPA compliance, and long-term operations management.



ABOUT DR. MARK-IGE, P.E., PH.D.

Ph.D., Civil Engineering, Mississippi State University
M.S., Civil Engineering, Southern Polytechnic State University
B.T., Civil Engineering, Savannah State University

Licensed P.E., Georgia & Virginia
Level II Certified Design Professional, Georgia
MS4 Compliance & Enforcement Certified Inspector, Georgia

35+ Years End-to-End Technical Water Expertise | Design Through Operations | Federal Prime Contractor

Collection System Engineering

Design to condition assessment — gravity, force main, and lift stations

2,700-mile Dekalb County Network

Construction Engineering

Owner's rep, submittals, RFIs — from groundbreaking to commissioning

\$230M Construction Management

Operations & Maintenance

Countywide programs, field crews, CCTV inspection, asset planning & management

Fulton County System-wide Program

Treatment Plant Engineering

Full design through expansion — headworks, MBR systems, and solids; 36 MGD→54 MGD

\$230M Expansion, Big Creek AWTP

Program & Compliance Mgmt.

EPA Consent Decree, NPDES, CMOM — SSO reduction and system compliance

\$58M+ Fulton County CMOM Program

Federal & Industrial Engineering

DoD prime contractor - USAF, US Army industrial process waste and NPDES

Robins AFB • \$5.3M Prime Contract



YOUR ADVANCE TEAM

PLANNING. DESIGNING. DELIVERING.

Company Data

UEI	GLYVM7NGKGT8
CAGE	8FZJ3
8(A) CERT.	SBA 8(a) Certified through 2031
PRIMARY NAICS	541330 — Engineering Services
ADD'L NAICS	541620 · 541611 541618 · 562211 · 561621

Business Development Contact

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