

JAMES MARK-IGE, P.E., PH.D.

35+ Years End-to-End Water Expertise | Design Through Operations

DESIGN | CONSTRUCTION MANAGEMENT | OPERATIONS

PROFESSIONAL SUMMARY

With **35+ years of experience in civil and environmental engineering**, Dr. James Mark-Ige, P.E., a professional engineer, has served as design engineer, project manager, program manager, and senior manager-in-charge on major engineering and construction projects: roads and highways, environmental, water resources, water and wastewater, site engineering (site development projects) and construction management.

Dr. Mark-Ige currently serves as Managing Principal at Advance Engineering and Construction, LLC., (AE&C). This company is geared towards design and construction of civil and environmental engineering projects. He is involved with day-to-day activities of the firm. Dr. Mark-Ige started his career as a young engineer, designing highway engineering and site development projects including storm water and construction management. He worked on Jodeco subdivision and Ryan restaurant projects in Clayton County, Georgia and many other site engineering projects designed and oversaw the construction. On many site projects, he designed the grading and drainage plans including performing field survey work. He worked on major highway engineering projects: Sutherland Parkway in Virginia, a four lanes highway and Armory Plaza roadway and ramp design in Washington D.C., Dr. Mark-Ige designed all the elements of these projects (vertical and horizontal layout, drainage, cross-section, and quantity take-off.

While working on DeKalb County Capital Improvement Project (CIP) for Corporate Environmental Risk Management (CERM) under TEAM AECOM Program Management Team, he was responsible for the initiation, planning and execution of many water and wastewater engineering projects.

RELEVANT EXPERIENCE

MANAGING PRINCIPAL, ADVANCE ENGINEERING & CONSTRUCTION, LLC

Robins Air Force Base – Industrial Process Waste (IPW) Cleaning

(Contract FA857118C0012 | FFP \$5.3M)

- Provided industrial cleaning services for 280+ task line items comprising over 5,600 individual tasks completed annually at Robins AFB's Avionics Repair Depot under a firm-fixed-price contract valued at \$5.3M
- Developed and implemented proprietary task-tracking software tailored to government customer requirements, enabling forward scheduling, real-time task visibility, and detailed reporting to government stakeholders
- Established documented processes and procedures for all 280+ cleaning tasks in coordination with government representatives, driving continuous process improvement that increased facility utilization over a 5-year performance period
- Maintained rigorous quality assurance protocols through a three-tiered review process (Team Lead, Safety/Quality Manager, and Project Manager), ensuring all work met government standards
- Executed pre-task safety planning for each cleaning event, including assessment of chemical hazards, review of Safety Data Sheets, and confirmation of appropriate PPE prior to commencement of work

CORE COMPETENCIES

- **Environmental Engineering (Wastewater/ Water Systems):** Planning Development, Design and Operations
- **Water Resources Engineering:** Planning Development, Design and Operation
- **Transportation System:** Planning, Development and Design
- **Site Engineering:** Planning, Development Design, and Implementation
- **Construction Engineering and Management**

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RELEVANT EXPERIENCE (CONT.)

Fulton County – Big Creek Advanced Wastewater Treatment Plant Expansion

(Contract No. 200-91489-13001 | T&M \$2.3M)

- Served as Project Manager providing construction management support services for a \$230M wastewater treatment plant expansion, increasing plant capacity from 36 MGD to 54 MGD to support regional population growth and EPA/EPD compliance
- Coordinated all aspects of construction activities including schedule management, budget oversight, and quality conformance review across site preparation, new headworks, aeration basins, membrane bioreactors, chemical storage, and dewatering facilities
- Managed a comprehensive Construction Document Administration (CDA) system, tracking all contractor submittals including shop drawings, RFIs, RFPs, change orders, and progress payments from receipt through resolution
- Reviewed all work and materials for conformance with contract documents and permitting agency requirements; identified and escalated nonconforming work to the Construction Manager for corrective action
- Facilitated communications among all project stakeholders using a Management Information System, ensuring transparency and coordination throughout the construction lifecycle

Fulton County / Black & Veatch – Survey, Inventory & Modeling Program Management

(Professional Master Services Agreement | T&M \$1.98M)

- Served as Program Manager for a \$58M+ federal Consent Decree compliance program, directing implementation of Capacity, Management, Operation and Maintenance (CMOM) programs for Fulton County's sanitary sewer collection and transmission system
- Led development and execution of the Priority Area Sewer Assessment and Rehabilitation Program (PSARP) and Maintenance Management System (MMS) Program — the two most complex programs under the EPA Consent Decree
- Managed a multi-program portfolio including system-wide flow and rainfall monitoring, hydraulic modeling, sewer assessment and rehabilitation, and GIS-based sewer mapping to support long-term reduction of Sanitary Sewer Overflows (SSOs)
- Provided technical, professional, and administrative support to ensure full compliance with EPA Consent Decree requirements, protecting public health and water quality in rivers and streams throughout the county
- Directed cross-functional teams in delivering ongoing program improvements, enabling the County to achieve near-term SSO reductions while establishing sustainable operations for its wastewater collection infrastructure

EDUCATION & CERTIFICATIONS

- **Ph.D., Civil Engineering,** Mississippi State University, 2022
- **M.S., Civil Engineering,** Southern Polytechnic State University, 2016
- **B.T., Civil Engineering,** Savannah State University, 1985
- **Licensed P.E.,** Georgia & Virginia
- **Level II Certified Design Professional,** Georgia
- **MS4 Compliance & Enforcement Certified Inspector,** Georgia