

## CORE COMPETENCIES

Atkins Engineering Solutions (AES) is a federally registered, Small Disadvantaged Business (meets SBA size standards per applicable NAICS) engineering consultancy delivering specialized power systems analysis, NFPA compliance, and mission-critical facility solutions. Headquartered in Atlanta, GA, with multi-state licensure, AES supports federal agencies, utilities, pharmaceutical manufacturing, and data center infrastructure. Our proprietary **Compliance-to-Operations (C → O) Methodology™** bridges the gap between complex design and operational reality, ensuring all engagements achieve strict regulatory alignment, zero-downtime reliability, and measurable safety outcomes on schedule.

## TECHNICAL CAPABILITIES

### ⚡ Power Systems & Energy Storage (BESS)

- Load Flow, Short Circuit & Arc-Flash Hazard Analysis (NFPA 70E)
- Protective Device Coordination & Grounding Design
- Battery Energy Storage Systems (BESS) Engineering
- Interconnection Studies & Utility Coordination

### 🏠 Substation Protection & Controls

- Protective Relay Settings & Control Scheme Design
- SCADA Integration & Communication Protocols
- NERC/PRC Compliance & Documentation
- Commissioning Support & Owner's Representative Services

### 🔧 NFPA Compliance & Mission-Critical Safety

- NFPA 70B/70E Electrical Safety & Preventive Maintenance Programs
- Pharmaceutical Facility Compliance (cGMP/FDA-aligned)
- Thermal Imaging (IR) Programs & Site-Specific Safety Procedures
- Dual-Platform Analysis (SKM Power\*Tools & ETAP)

### 🚗 Transportation & Federal Infrastructure

- DOT/Transit Facility Electrical & Highway Lighting Design
- Intelligent Transportation Systems (ITS) & Traffic Signal Power
- Conduit, Ductbank Design & Fiber Backbone Infrastructure
- Lightning Protection & Ground Resistance Testing

## FEDERAL PROCUREMENT DATA

### UEI

JKYBC3NHMMV8

### CAGE CODE

19EX2

### BUSINESS STATUS

Small Disadvantaged Business (SDB)  
Small Business

### PRIMARY NAICS

541330 – Engineering Services

### SECONDARY NAICS

541690 – Other Scientific & Technical Consulting

### STATE CERTIFICATIONS

GDOT Qualified Professional Consultant

### PRODUCT & SERVICE CODES (PSC)

C219: A&E – Engineering

C211: A&E – General Engineering

R425: Engineering & Technical Services

H341: Inspection Services – Electrical Equipment

J065/J066: Maint/Repair Power Dist & Misc Equipment

### TEAMING & CONTRACTING ALIGNMENT

- Eligible for SDB Federal Set-Asides and Simplified Acquisitions
- Available to support Prime Contractors on GSA MAS, SEWP, and 8(a)/HUBZone to fulfill small business utilization goals

## KEY DIFFERENTIATORS

### ✓ Principal-Level Execution

Direct PE engagement on every project, zero hand-offs to junior staff.

### ✓ AI-Enhanced Efficiency

Circuit Pilot integration accelerates deliverables timelines without compromising technical rigor.

### ✓ Broad Geographic Reach

Multi-state Professional Engineering (PE) licensure across 12 states for seamless regional deployment.

### ✓ Dual-Platform Validation

Independent cross-checking utilizing both SKM Power\*Tools and ETAP.

### ✓ Pharma & Federal Ready

Specialized in cGMP environments and fully versed in FAR-compliant documentation.

### ✓ C → O Methodology™

Proprietary framework ensuring regulatory compliance translates to operational continuity.

## THE COMPLIANCE-TO-OPERATIONS (C → O)™ METHODOLOGY

Our proprietary framework ensuring regulatory requirements translate to field reliability

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## LEADERSHIP: CARLOS ATKINS II, P.E.

### Principal Engineer & Founder

Carlos brings over a decade of specialized expertise in utility substations, pharmaceutical compliance, and federal infrastructure projects. He provides direct technical leadership on every AES engagement, ensuring enterprise-level capability with principal-level execution.

*Credentials: Licensed PE (12 States) | IEEE Senior Member | IEEE Atlanta Section Board | SKM & ETAP Certified | NFPA 70E Safety Expert*

## REPRESENTATIVE PAST PERFORMANCE

### Pharmaceutical Manufacturing Facility NFPA Compliance

*Client: Fortune 500 Pharmaceutical Manufacturer | Scale: 250,000 sq ft cGMP campus*

- ▶ Developed comprehensive NFPA 70B/70E electrical safety and preventive maintenance program for multi-building cGMP campus
- ▶ Executed facility-wide arc-flash hazard analysis with equipment labeling
- ▶ Established site-specific safety procedures and delivered specialized training

### Battery Energy Storage System (BESS) Engineering

*Client: Renewable Energy Developer | Scale: 50MW / 200MWh Facility*

- ▶ Led complete electrical engineering for utility-scale BESS facility
- ▶ Delivered interconnection studies, protection coordination, and grounding design
- ▶ Provided utility coordination and Site Acceptance Testing (SAT) support

### Utility Substation Protection & Control Upgrade

*Client: Regional Electric Utility | Scale: 115kV/13.8kV Substation / \$2.1M Budget*

- ▶ Provided Owner's Representative services for critical substation modernization
- ▶ Managed protective relay replacement and SCADA integration
- ▶ Delivered comprehensive NERC/PRC compliance documentation

### Federal Transportation Facility Electrical Design

*Client: State Department of Transportation (GDOT Qualified) | Scale: Multi-acre DOT maintenance facility*

- ▶ Engineered power distribution, lighting systems, and ITS infrastructure
- ▶ Designed emergency power systems for mission-critical operations
- ▶ Executed as GDOT-qualified professional consultant with highway lighting alignment

### Data Center Critical Power Systems Analysis

*Client: Enterprise Data Center Operator | Scale: 20MW Load / Tier III Facility*

- ▶ Executed comprehensive power systems study for mission-critical data center
- ▶ Delivered load flow analysis, short circuit analysis, and protective device coordination
- ▶ Performed arc-flash assessment using dual-platform validation (SKM/ETAP)

### Industrial Facility Lightning Protection System

*Client: Manufacturing Facility | Scale: 180,000 sq ft industrial campus*

- ▶ Designed lightning protection system including air terminals and down conductors
- ▶ Engineered grounding system and surge protection for critical equipment
- ▶ Developed annual inspection program and compliance certification protocols

## TARGET MARKETS & SERVICE AREA

### Primary Markets

**Federal Agencies:** Department of Defense (DoD), Veterans Affairs (VA), General Services Administration (GSA), Department of Energy (DOE)

**Commercial & Industrial:** Pharmaceutical & FDA-Regulated Facilities, Utilities & Substations, Transportation Infrastructure (DOT/Transit), Water/Wastewater Utilities, Data Centers

### Primary Service Footprint

**Georgia • Alabama • Florida • Louisiana • Texas • California**

*Multi-state Professional Engineering (PE) licensure across 12 states available for regional and national federal deployments*