

We measure what operations cost — then engineer the cost out.

AKETEC is a Texas engineering firm serving public agencies and the prime contractors that support them. We modernize the systems agencies depend on and remove the manual work between them — through AI automation, custom software development, digital infrastructure, and the data engineering that holds it together. Every engagement begins with a fixed-price assessment that quantifies current cost before any build is proposed. All work is performed in the United States by US persons.

CORE COMPETENCIES

AI Automation & Process Engineering

- Process mapping and manual-effort quantification
- Workflow automation and system-to-system integration
- AI and automated-decision system inventories

Custom Software Development

- Web, mobile and internal application development
- API design and integration layers
- Legacy application modernization and replacement

Digital Infrastructure & Integration

- Cloud environments on AWS, Azure and GCP
- Database design, migration and administration
- Access control, backup and operational resilience

Data & Records Engineering

- ETL pipelines, data warehousing and reporting
- Data inventory, classification and lineage
- Tamper-evident logging and cryptographic provenance

DIFFERENTIATORS

- **Senior engineers deliver the work.** The engineer who assesses your systems builds the fix. Nothing is handed to a junior bench after award.
- **We quantify before we recommend.** Automation is easy to sell and easy to get wrong. Every recommendation rests on measured current cost.
- **Fixed price, fixed scope, documented deliverable.** Priced and bounded before we start. Growth in scope becomes a new engagement, not an open clock.
- **Deliverables written to your frameworks.** Output is formatted against the modernization and governance frameworks your agency already reports under.
- **US-based delivery, US persons only.** No offshore development and no subcontracted delivery to unnamed third parties.

KEY PERSONNEL & RELEVANT EXPERIENCE

Ernesto D. Herbert, Founder / CEO — M.S. Data Science, George Washington University. MCSE: Data Platform · Oracle Database Administrator · ITIL v3. Fifteen years engineering data systems across healthcare, aerospace, telecommunications, and political technology.

Automation in production

Automated client data onboarding and SQL transformation workflows at a national political-data platform, cutting manual processing time 30% and accelerating client go-live timelines.

Legacy modernization at scale

Star-schema warehouses and SSIS/SSRS pipelines integrating mainframe and non-mainframe systems for aerospace production analytics; multi-terabyte Oracle and SQL Server administration.

Regulated data, fully auditable

Reconciliation and data-quality systems for Medicare reimbursement data (APC, DRG, ESRD, ASC) achieving 100% auditability across complex regulatory datasets.

Records integrity engineering

Introduced hashing and audit-trail mechanisms into enterprise ETL pipelines; architected a Hyperledger Besu network with zk-SNARK identity for verifiable, immutable records.

CORPORATE DATA

REGISTERED LEGAL ENTITY
Alkebuleum Technology LLC

UNIQUE ENTITY ID (UEI)
Pending SAM.gov registration

BUSINESS TYPE
Small business · LLC · State of Texas · Est. 2024

NAICS
541511 (primary) · 541512 · 541519 · 541611 · 541690 · 518210

CONTRACT TYPES
Firm-fixed-price · Labor-hour · T&M · Prime or subcontractor

PRINCIPAL OFFICE
Hutto, Texas 78634

OPERATING NAME
AKETEC

CAGE CODE
Pending SAM.gov registration

REGISTRATIONS
SAM.gov and Texas CMBL in progress

PSC
DA01 · DF01 · DJ01 · DC01

COVERAGE
Central Texas on-site · Nationwide remote

POINT OF CONTACT
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Insurance: general liability, professional liability (E&O), and cyber liability bound prior to contract award. Certificates furnished on request.

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