# ATA ENGINEERING, INC.

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## OASIS+
### One Acquisition Solution for Integrated Services +

## Contact Information

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Submit a project inquiry:

https://www.ata-e.com/contact/

## Learn More about OASIS+

**OASIS+ Overview**

https://www.gsa.gov/oasis-plus/about/

**OASIS+ Buyers' Guide**

https://www.gsa.gov/oasis-plus/buyers-guide/

## Business Information

➤ UEID: PNZEUK9JC187

➤ ATA OASIS+ Small Business NAICS Code: 541330

➤ ATA OASIS+ Unrestricted NAICS Codes: 541330, 541380, 541690, 541990

➤ AS9100 Certificate #11002708

➤ Nontraditional Defense Contractor

➤ DCAA-compliant accounting system

## ABOUT ATA

ATA Engineering, Inc., is a 100% employee-owned business that has been helping our clients solve their complex engineering problems in the areas of product design, structural dynamics, thermal analysis, aeroelasticity, acoustics, software development, computational fluid dynamics (CFD), structural mechanics, training, and testing since 2000.

In supporting numerous commercial and government programs with precision and efficiency, our team has earned a reputation for excellence in the engineering community. Such engagements comprise a wide range of highly engineered products, including military and commercial aircraft, satellites and interplanetary spacecraft, launch vehicles, missile systems, and transportation vehicles. We are committed to supporting our clients through advanced engineering methods.

## OASIS+ Contract Award Information

➤ OASIS+ Contract Awards Received
  ➤ **Unrestricted** for the Technical and Engineering Domain (December 17, 2024)
  ➤ **Small Business** for the Technical and Engineering Domain (December 19, 2024)

➤ Five-year (base), with an additional five-year option, multiple-award Indefinite Delivery, Indefinite Quantity (IDIQ) contract to simplify government procurement of complex professional services, including engineering services

➤ Designated as a "Best-in-Class" contract vehicle to meet the "whole of government" needs for professional services while significantly streamlining government contracting relative to traditional methods

➤ OASIS+ contracts may be used by all federal agencies, including the Department of Defense (DoD), Federally Funded Research and Development Centers (FFRDCs), and University Affiliated Research Centers (UARCs)

➤ Offers federal agencies a versatile and efficient vehicle to acquire integrated professional services through individual task orders

➤ Task-order contracts can utilize any contract type (firm fixed price, time and materials, cost plus, etc.) and permit sole-source awards for "unique or highly specialized" or "urgent" services, among other exceptions defined in FAR 16.505

➤ Access fee for government agencies using OASIS+ is a modest 0.15% of the total contract award

## ATA Engineering Staff Highlights

➤ Regular full-time staff of more than 200 employee-owners

➤ More than 160 degreed engineers on staff, averaging 15 years of experience each

➤ Majority of engineers possess advanced degrees

# Key Service Offerings

## Structural & Dynamic Analysis

- Loads determination
- Assessment of static and dynamic load effects
- Test-verified finite element model (FEM) development
- Detailed stress analysis
- Durability
- Random, sine, and shock
- Aeroelasticity
- Coupled loads

## Design

- Concept to production design development
- Requirements, specifications, and manufacturing drawings
- Third-party design reviews and design verification
- Design optimization
- Prototype development and testing
- Mechanical design-build support

## Fluid Dynamics & Propulsion

- CFD simulation and visualization
- Fluid-structure and fluid-thermal-structural interaction
- Advanced hypersonics analysis
- Chemically reacting flows and ablation analysis
- Fully coupled simulation of structural, fluid, thermal, and ablation physics
- Aerodynamic design and wind tunnel test support
- Flutter and full-system aeroelastic stability analysis
- Use of advanced machine learning methods to improve computational accuracy and efficiency

## Mechanism/Nonlinear Dynamic Analysis

- Assembly, operation, and handling
- Deployable structures analysis
- Deployment and stage operation
- Nonlinear buckling and postbuckling failure analysis
- Impact and drop simulations
- Joint gapping and slipping
- Rigid and flexible body kinematic analysis

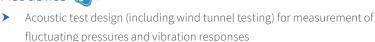## Composites & Material Characterization

- Development of novel material models
- Use of advanced material models in extreme environments
- Polymer, ceramic, carbon, metallic matrix composites
- Application of machine learning algorithms to material characterization

## Testing

- Modal and ground vibration testing
- On-site, real-time operational testing
- Vibration testing
- Strain, acceleration, thermal, displacement, and force measurements
- Drop, shock, and support for pyroshock measurements
- Rotating and reciprocating machinery
- Accelerated fatigue testing
- Data postprocessing and analysis
- Aircraft free-play and stiffness measurements
- Flight testing support
- Acoustic array testing
- Sound-level measurement

## Acoustics

- Acoustic test design (including wind tunnel testing) for measurement of fluctuating pressures and vibration responses
- Data processing and interpretation of test data
- Definition of fluctuating pressure environments for launch vehicles and aircraft during liftoff, ascent, and flight
- Vibroacoustic analysis of coupled fluid-structure systems through finite element analysis, boundary element analysis, and statistical energy analysis
- Correlation of vibroacoustic models to test data
- Active and passive interior noise reduction
- Environment noise propagation analysis

## Thermal Analysis

- System and component-level thermal analysis and design
- Board-level and chip-level thermal analysis
- Forced and free convection, using empirical correlations, one-dimensional duct flow, and three-dimensional fluid flow
- Orbital and ground-based radiation heating
- Ablation and thermal protection systems sizing
- Design of active and passive thermal control systems
- Thermoelastic analysis

## Software & Software Development

- Value-added reseller (VAR) for Siemens Digital Industries Software
- Commercial (ATA Suite) and custom software development
- Support hotline and web portal for technical questions
- CAE and custom software training
- Visit https://www.ata-e.com/software/ to learn more

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