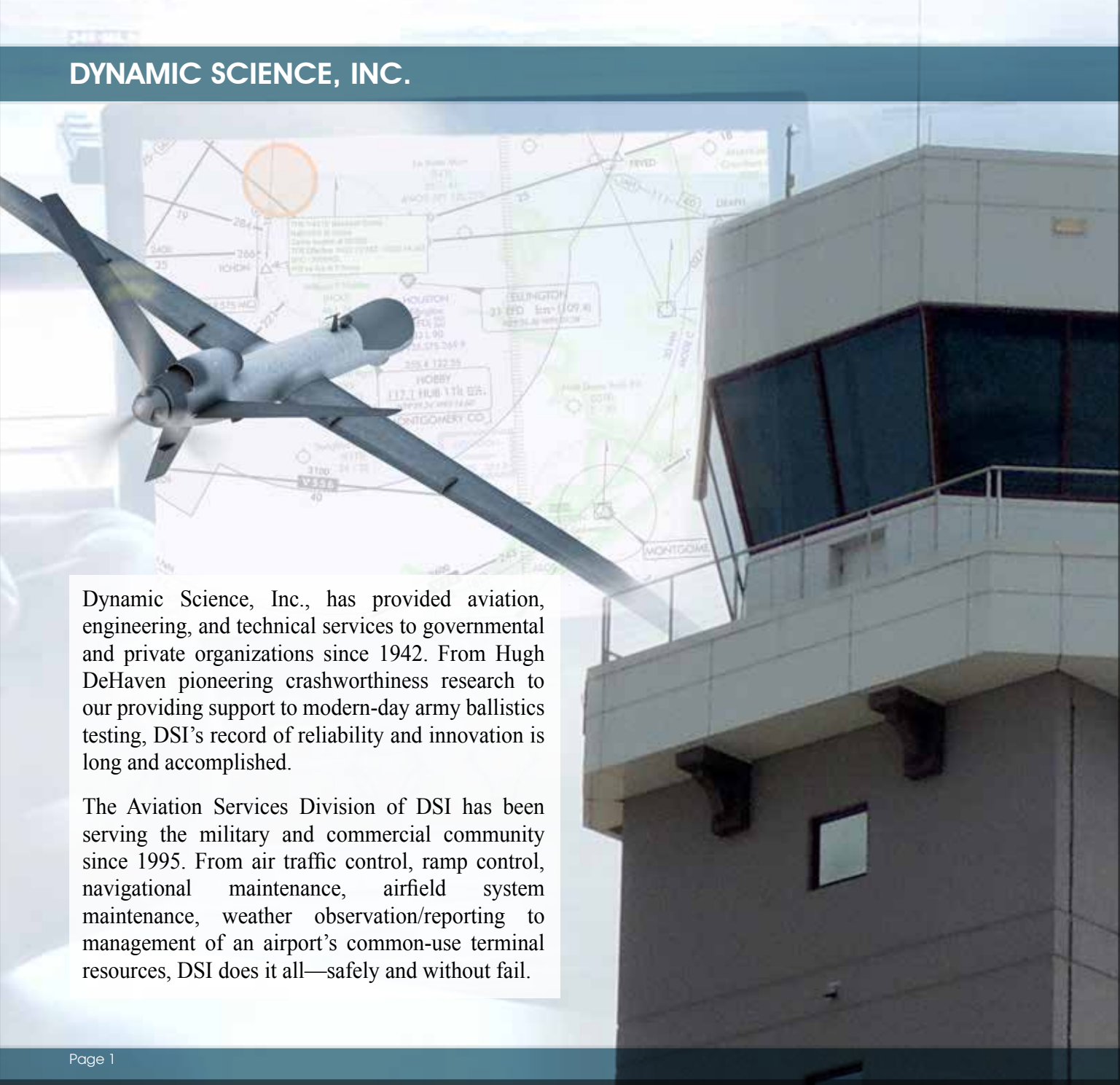


A photograph of an air traffic control tower at night. The tower is illuminated from within, showing a control room with several operators and a lower level with a doorway. The sky is a deep blue. The text "Dynamic Science, Inc." is overlaid in white, sans-serif font.

Dynamic Science, Inc.

# AVIATION SERVICES

**ds**i



Dynamic Science, Inc., has provided aviation, engineering, and technical services to governmental and private organizations since 1942. From Hugh DeHaven pioneering crashworthiness research to our providing support to modern-day army ballistics testing, DSI's record of reliability and innovation is long and accomplished.

The Aviation Services Division of DSI has been serving the military and commercial community since 1995. From air traffic control, ramp control, navigational maintenance, airfield system maintenance, weather observation/reporting to management of an airport's common-use terminal resources, DSI does it all—safely and without fail.

# AIR TRAFFIC CONTROL AND MANAGEMENT OPERATIONS

DSI helps airports improve safety and efficiency by analyzing and improving ATC and airport management services. DSI controllers maintain positive control of vehicles and aircraft as well as constant surveillance of the airspace and the movement areas at their respective airports using proven techniques, standardized phraseology and rigid adherence to Federal Aviation Administration (FAA) separation standards. DSI operations are in strict accordance with specific FAA/National Weather Service (NWS) orders, notices, and airport directives.

Additionally, DSI air traffic management staff have decades of air traffic and airspace management experience. They specialize in the development and review of procedural guidance, airspace design, special use airspace requirements, Class B/C airspace revisions, unmanned aircraft systems (UAS) integration, and special traffic rule requirements.

Airspace analysis entails a careful review for the following:

- ✈ Noise
- ✈ Safety
- ✈ Efficiency
- ✈ Special use airspace
- ✈ Environmental impact
- ✈ Integration of general aviation
- ✈ Class B or C airspace requirements
- ✈ UAS integration / Certificate of Authorization (COA) analysis

As a result, you can expect greater efficiency and/or increase in

- ✈ Safety
- ✈ Flight plan scheduling
- ✈ Gained fuel efficiency
- ✈ Special use airspace time
- ✈ Revenue generating operations
- ✈ National Airspace System (NAS) compliance

## AVIATION SERVICES



Seattle-Tacoma Airport

DSI provides airport services at 9 Locations



Air Traffic Control

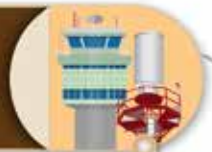


Air Traffic Control and Landing Systems (ATCALS) Maintenance



Ramp Control and Management of Terminal Resources

Ellington Airport



DSI is a fully functional, all-inclusive provider of air traffic control, navigational aid, and airfield systems maintenance. We are an established ATC supplier to the National Guard Bureau, operating at many joint-use military-civil airfields. DSI's controllers service general aviation aircraft, business jets, a full range of military aircraft, and commercial air carriers of every size. Our experience in mixing military, civil and UAS operations is unsurpassed. DSI also provides ramp control and gate coordination services at the Detroit Metropolitan Airport, Michigan, and Seattle-Tacoma International Airport, Washington.

**Detroit  
Metro  
Airport**



**Burlington  
International  
Airport**



**Quonset  
State  
Airport**



**Francis S.  
Gabreski  
Airport**



**Rickenbacker  
International  
Airport**



**Eastern West  
Virginia Regional  
Airport**



**Stanly  
County  
Airport**



# AVIATION SERVICES

## AIR TRAFFIC SERVICES

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- Flight following
- Traffic advisories
- Search and rescue coordination
- Crash/rescue notification & coordination
- Control/separate/sequence air traffic in terminal area
- Inter- and intra-facility communications/coordination

## AUTOMATED BENEFITS

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- Input/updates/termination on Flight Data Input/Output (FDIO)
- Standard Terminal Automation Replacement System (STARS)
- Automatic Terminal Information Service (ATIS)
- Automated Surface Observing System (ASOS)
- Automated Weather Observing System (AWOS)
- Airfield Automation System (AFAS)
- Digital Audio Legal Recorder (DALR)

## AVIATION WEATHER SERVICES

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- FAA Certified Limited Aviation Weather Reporting System (LAWRS) Supplemental Aviation Weather Reporting System (SAWRS)
- Station aviation weather reporting
- Enroute weather advisories/warnings
- Airman's Meteorological Information (AIRMET) / Significant Meteorological Information (SIGMET) reporting
- Center Weather Advisory (CWA) and Pilot Reports (PIREP)

## MAINTENANCE

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- Navigational aids (NAVAIDs)
- Meteorological Equipment
- HF, UHF, & VHF radios
- ATCALs

## WEATHER OBSERVATION SERVICES

- Real-time weather observation using the ASOS and the AWOS
- Critical weather data analysis for aviation observations
- First-class interpretation of radar and satellite imagery
- All controllers FAA trained and certified in accordance with FAA Orders and NWS meteorological reporting criteria
- Exceptional cooperative weather-watch program

## ATC MAINTENANCE SERVICES



- ✦ DSI services include ATCALs, meteorological navigational (METNAV), and NAVAID systems equipment maintenance.
- ✦ DSI maintenance technicians are FAA and Federal Communications Commission (FCC) licensed and certified.
- ✦ DSI's skilled maintainers provide service on
  - AN/FRN-45 TACAN
  - GRN-29 instrument landing system (ILS)
  - Non-Directional (Radio) Beacon (NDB)
  - Tower radio transmitters, receivers, and antennas
  - Automated Terminal Information System (ATIS)
  - AN/FSQ-204 STARS Tower Display Workstation
  - Light guns
  - AN/FMQ-13 Digital Wind System
  - Vaisala CT25K Cloud Height
  - Aneroid Barometers (ML-102) (FA-112)
  - Closed Circuit Television (CCTV) Security System
  - Enhanced Terminal Voice Switch (ETVS)
  - Small Terminal Voice Switch (STVS)
  - DALR



## AIR TRAFFIC CONTROL AND MANAGEMENT SERVICES



- ✈ DSI employees have experience working in Air Route Traffic Control Centers (ARTCC) and terminal radar approach control (TRACON) / ATC facilities around the country.
- ✈ DSI employees are NextGen-capable and prepared to conduct any airspace redesign or air traffic management research services to focus on the analysis and optimization of the National Airspace System.
- DSI personnel control 175,000 annual aircraft operations at five airports nationwide.
- Over 40 full-time air traffic controllers operate visual flight rules (VFR) control towers.
- DSI controllers average 28 years of ATC experience, maintain FAA certifications and currency.
- DSI air traffic managers average over 30 years of ATC experience.
- All ATC operations are compliant with FAA regulations and procedures.
- Our team of senior ATC employees have extensive experience in the profession. They are former FAA employees and retired military personnel and have served in many different ATC roles.
- Our controllers make use of the world's most advanced automation systems to efficiently integrate tower-controlled aircraft into the National Airspace System.

## RAMP CONTROL AND TERMINAL COORDINATION SERVICES

The safe and efficient movement of aircraft within the confines of congested ramp space is DSI's number one priority in providing superior ramp control services. We also effectively schedule terminal resources, including gates, ticket counters, and baggage systems. DSI's efficiency reduces remote parking for airlines, enhances passengers' travel experience, and captures airport revenue. Our employees provide the following:

- ✈ Common-use gate planning
- ✈ Prioritization of arrivals and departures
- ✈ Coordination with all airport, airline, and air traffic control personnel
- ✈ Flight information display updates for operational and public viewing
- ✈ Real-time tracking of gate occupancy and commercial airline use of terminal resources
- ✈ Taxi instructions for remote de-icing, parking areas, gate arrivals, and departure clearances

## DSI SURFACE MANAGEMENT BENEFITS

DSI is sensitive to the high business costs associated with a bustling airport and offers services with fiscal responsibility in mind. In addition to providing the human element, DSI's proprietary airport surface management system captures aircraft movement, parking, and the costs associated with each event. Our system of data retrieval provides our customers with the following:

- ✈ Gate-parking report categorized by airline
  - Arrival/departure times
  - Parking location
  - Gate usage by minutes
- ✈ Aircraft diversion information
- ✈ Breakdown of parking fees assessed to each airline
- ✈ Weekly and monthly charter schedules
- ✈ Gate plot scheduling tools
- ✈ Hardstand parking reports
- ✈ Daily record of facility operations
- ✈ Common-use aircraft movement logs

## SAFETY AND QUALITY

- ✈ DSI's Quality Control Plan ensures full FAAO JO 7110.65, Air Traffic Control, and U.S. Air Force (USAF) compliance.
- ✈ Our Quality Control Plan has produced exceptional results on FAA quality-assurance evaluations and achieved outstanding customer-satisfaction reports from aviation users throughout the country.
- ✈ DSI controllers are trained, skilled, and FAA-certified in effective separation of aircraft.
- ✈ DSI administers a results-driven reduced runway incursion plan.

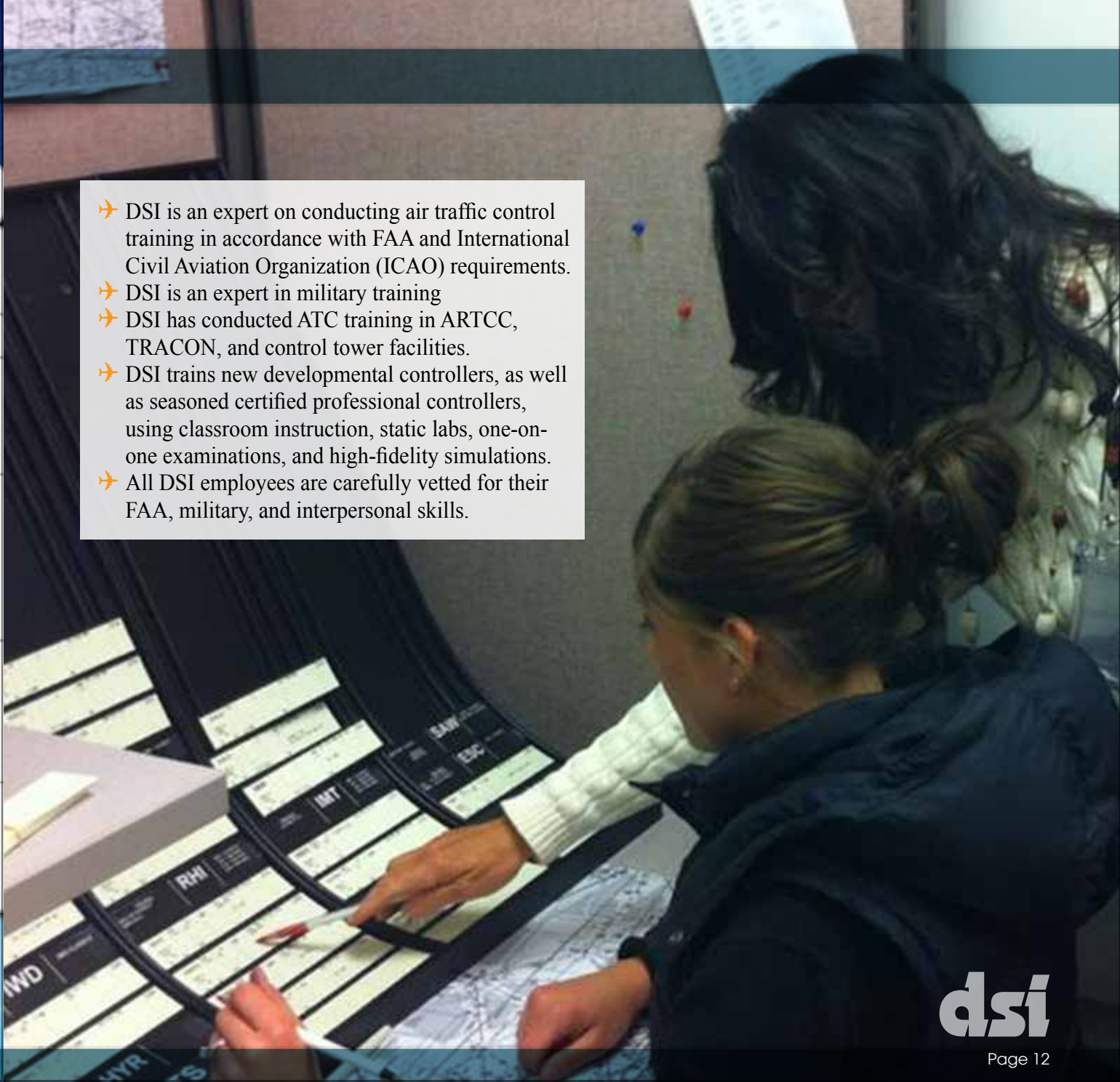


## PRICING AND PROFESSIONAL ASSOCIATIONS



- ✦ Pricing is highly competitive and provides airports with maximum hours of operation.
- ✦ Cost-effective support methods to remain within airport budgets.
- ✦ Combined weather and ATC services limit the number of personnel required to perform aviation-related tasks, saving airport funding.

DSI remains engaged on all professional levels to ensure our employees are equipped with the most current information on supporting government contracts. DSI is an active member of several professional organizations, including Air Traffic Control Association (ATCA) and American Association of Airport Executives (AAAE).

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- The background image shows two women in a control room. They are seated at a console with a large, curved display board. The board is filled with various panels, including one labeled 'RHI' and another with 'SAW' and 'ESC'. The woman in the foreground is wearing a dark jacket and has her hair in a bun. The woman behind her is wearing a white sweater. They appear to be focused on their work.
- ✈ DSI is an expert on conducting air traffic control training in accordance with FAA and International Civil Aviation Organization (ICAO) requirements.
  - ✈ DSI is an expert in military training
  - ✈ DSI has conducted ATC training in ARTCC, TRACON, and control tower facilities.
  - ✈ DSI trains new developmental controllers, as well as seasoned certified professional controllers, using classroom instruction, static labs, one-on-one examinations, and high-fidelity simulations.
  - ✈ All DSI employees are carefully vetted for their FAA, military, and interpersonal skills.

## AIR TRAFFIC CONTROL TRAINING



- ✈ ATC training of certified professional controllers and trainees
- ✈ Interpretation and application of rules and procedures
- ✈ Training for and testing of knowledge and practical application
- ✈ High-fidelity simulation development and generation
- ✈ Computer-based instructional programming and administration
- ✈ Records documentation
- ✈ Quality control and standard operating procedure development
- ✈ NextGen hardware and software training and program transition support

For additional information, please contact:

**Dynamic Science, Inc.**

**Phone: (507) 649-1116**

**[www.dynamicscience.com](http://www.dynamicscience.com)**

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