Airport owners, whether local aviation authorities or municipalities, look for innovative planning strategies, practical design concepts, and available funding opportunities to support their growth and keep operations running smoothly. GAI Consultants brings more than 60 years of engineering consulting excellence to planning, design, and construction services for airports.

Close working relationships with airport managers and those responsible for day-to-day airport operations means our staff has comprehensive industry knowledge.

Familiar with all aspects of Federal and State funding for airports, GAI moves grant and loan applications through the approval process seamlessly. Accurate and timely application submissions are standard at GAI, and we are committed to avoiding slow approvals and costly delays for our clients.

Skilled in cultivating and implementing new concepts for airport development, GAI’s planning professionals are dedicated to delivering the best possible solutions for airport clients. We continue to lead the way in helping airport owners plan for the growth and expansion needed to support the aviation industry.

GAI has a keen understanding of airport operations and maintenance procedures, including safety and security concerns. Our close working relationships with airport managers and the personnel responsible for day-to-day operation of airport systems means we have staff with comprehensive industry knowledge. This experienced staff is the key to our ability to provide comprehensive airport engineering from project planning through construction.

The airport engineers and designers at GAI develop design drawings, details, and specifications for a variety of airfield projects. We design runways, taxiways, aprons, roads, parking lots, buildings,
maintenance facilities, and hangars. We also design electrical and lighting systems for airfield, building, and access areas.

GAI’s involvement with airport projects does not stop at design—we have the resources to remain with a project until work is complete. Our in-house construction engineering and inspection specialists monitor construction, test materials, and verify contract compliance for a quality-built project.

From strategic planning through all aspects of aviation design, GAI’s depth of knowledge and broad range of airport engineering disciplines support airport growth and expansion for the myriad facilities that are the cornerstone of the aviation industry.

**Aviation Services**

**Planning**
- Aviation planning
- Conceptual site planning
- Financial/economic planning
- Capital improvement plans

**Design Engineering**
- Airfield engineering
- Pavement design
- Airfield lighting, signage, and marking plans
- Stormwater design and permitting
- Civil/site design
- Security fence and access control plans
- Roadway and parking lot design

**Construction Services**
- Aircraft hangar design
- Terminal building design
- Maintenance and equipment storage building design
- Structural design
- Surveying
- Grant administration
- Building services

**GAI Services Summary**
- Airport Planning, Design Engineering, and Construction Services
- Bridge and Structure Inspection and Design
- Coal Combustion Residuals Management
- Construction Inspection and Management
- Cultural Resources Management
- Economic Analyses and Strategies
- Electric Transmission Design and Siting
- Environmental Engineering
- Environmental Studies, Species Studies, Permitting
- Gas Pipeline Surveying and Mapping
- Geographic Information Systems (GIS)
- Geotechnical Engineering and Geology
- Impoundment and Landfill Permitting and Design
- Land Development Engineering
- Landscape Architecture and Design
- Master Planning and Urban Design
- Mechanical, Electrical, Structural Engineering
- Natural Gas FERC Certification and Permitting
- Nuclear Energy Engineering Support
- Right of Way and Appraisal Support
- Land Surveying and Mapping
- Transportation Planning and Design
- Utility Management Consulting
- Water, Stormwater, Wastewater Management