



Aviation

CEMS Engineering | Architecture offers a comprehensive range of design solutions to satisfy even the most diverse aviation program requirements. From concept to completion, this team of planning, design, and construction experts works with clients to make visions become reality.

Our philosophy of a holistic, collaborative, and integrated approach brings together all the necessary disciplines from the beginning to the end of a successful project. The CEMS office is viewed as a “communal workroom” for the collaborative efforts of all team members including the client, contractor, and consultants. An aesthetically pleasing exterior, attractive interior, functional floor plan, and a thoughtful combination of building systems are the cornerstones of a quality facility.

CEMS develops designs that incorporate cost-effective solutions, while addressing sustainable architecture and engineering practices that are good for both the client and the community.

Services Include:

- + Architecture
- + Structural Engineering
- + Civil Engineering
- + Mechanical Engineering
- + Electrical Engineering
- + Fire Protection Engineering
- + Commissioning Services
- + Master Planning
- + LEED Consultation
- + Program management
- + Facility and project programming
- + Request for Proposal (RFP) development
- + Space planning and utilization studies
- + Site planning and analysis
- + Feasibility Studies
- + Building permit drawings
- + Code review/consultation
- + GIS

CEMS Engineering, Inc.

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Electrical Distribution & Airfield Lighting, Navy Aux Landing Field, Orange Grove, TX

CEMS provided engineering design services for this design/build project for the total replacement of the 5 kV and 15 kV electrical distribution system, airfield lighting system (fixtures, circuits, regulators, home runs) simulated carrier landing deck, air navigation systems and emergency power at an auxiliary training field in Texas.



Aircraft Component Repair Facility Robins AFB, GA

CEMS Prepared the Design/Build RFP for the construction of a LEED Silver Aircraft Component Repair Facility. The new 61,000 square foot, five-story, largely open bay building allows officials to consolidate repair and overhaul workload from four other buildings, including two on the south end of the base constructed in 1942. The expansive, new building will house repair and overhaul for a number of C-130, C-5 and F-15 components including flaps, rudders, actuators, ailerons, pylons and fuel bladders. The unique open-bay approach allows swift reconfiguration to accommodate growing or new missions.



Repair Airfield Pavements, Drainage and Lighting NAS JRB New Orleans, LA

CEMS provided civil, electrical, and mechanical services for this design-build project for repairs to the airfield at NAS JRB New Orleans, LA. General grading, storm drainage, pavements, a Storm Water Pollution Prevention Plan (SWAPP) and construction services were required. Runway repairs consisted of repairs to the asphalt shoulders, PCC runway approach pavements each side of arresting gear cable, modification to arresting system, grade unpaved shoulders adjacent to runway, runway alignment corrections and new taxiway approaches to existing aprons were also provided. Complete improvements to existing drainage pipe system to meet the requirements of the RFP for the project.



Taxiway Replacement at Yellow Ramp Pope Air Force Base, NC

CEMS Provided complete Engineering Services and construction administration for the re-alignment and re-construction of a 2,200 LF taxiway adjacent to Yellow Ramp. This design provided for the removal of asphalt pavement and the construction of new Portland cement concrete pavement designed for a C-17 aircraft. The taxiway was realigned to improve aircraft movement and reduce environmental impacts to adjacent creek.