



Education

CEMS Engineering | Architecture offers a comprehensive range of design solutions to satisfy even the most diverse education 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

CEMS Engineering, Inc.

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**Irwin Intermediate School
Fort Bragg, NC**

CEMS performed electrical engineering, mechanical engineering, and communications for the new 117,500 SF Intermediate School to serve 725 students, grades 5 and 6. The new school includes general purpose classrooms, art classroom, music classroom, computer labs, gymnasium, multipurpose room with stage and kitchen, specialists' rooms, information center, administrative offices, teacher work rooms, and supply/storage rooms. It will incorporate advanced communication systems to support technology program requirements, as well as general communications.



**Health Science and Sports Medicine Classroom Renovations
Battery Creek High School, Beaufort SC**

CEMS renovated an existing wrestling room and existing science classrooms and labs into new labs to support new curriculum requirements of Health Science and Sports Medicine. Working on a short time-line, our architects provided a schematic design that was reviewed by the Office of School Facilities and then developed into construction drawings to facilitate the installation of the departments into their classrooms over the summer break.



**Child Development Center
Joint Base Charleston, SC**

CEMS provided full engineering design for this new, single story 35,064 SF Child Development Center, situated on an 11.8 acre site at Joint Base Charleston. The facility encompasses child activity rooms, offices, training, conference rooms, storage, and activity rooms. Special attention was placed on integrating sustainable strategies and features to minimize energy consumption and meet LEED Certifications requirements.



**Randall David Shughart Elementary and Middle School
Fort Bragg, NC**

CEMS provided civil design for this new elementary and middle school at Ft. Bragg for the Savannah District Corps of Engineers, while meeting Domestic Dependent Elementary and Secondary Schools (DDESS) and Department of Defense Education Activity (DODEA) requirements. The design for the Middle and Elementary School hosts 193,000 combined SF, supported by LEED compliant design and criteria. CEMS prepared and reviewed site improvements which included water, sewer, gas, communication duct, roadwork, drainage, holding ponds, athletic fields, playgrounds and equipment, sidewalks, service roads, bus loops, parent drop off loops, and bus parking for the 54 acre area.