The Civil Engineer School
At The Air Force Institute of Technology

THE CIVIL ENGINEER SCHOOL MISSION

Providing vital, relevant and connected education that enables Airmen to be ready engineers and great leaders who know how to build sustainable installations to last while leading the change for the Civil Engineering career field.

The school’s faculty and staff include 18 military personnel, 12 civilians, and seven contractors.

SIGNIFICANT ACCOMPLISHMENTS

The Civil Engineer School directed approximately 110 courses and taught about 4,500 civil and environmental engineers in residence and at on-sites as well as online and by DVD, satellite and symposiums in fiscal 2013. Below are some of the highlights:

Vital
- Integrated Active Duty, Guard and Reserve engineer officers and civilian engineers into the career field’s first “Total Force” initial skills badge awarding course, ensuring consistent training across the board.
- Air Force Senior Facilitator for six Joint Engineer Operations (JEO) officers and civilian engineers into the career field’s first “Total Force” initial skills badge awarding course, ensuring consistent training across the board.
- Developed consultation services for issues in management (e.g., operations, housing, Prime BEEF wartime skills), engineering (e.g., Airfield pavements, HVAC control systems, roofing, Micro-paver) and environmental (hazardous waste management, pollution prevention).

Relevant
- Designed the Civil Engineer Speaker Series (WMSS 599) for initial skills students and continuing education, ensuring preparedness for combined operations.
- The program includes several civil engineer specific courses, including those on the following topics: construction management, inspection, contracts and law, and risk and finance; asset management modeling; infrastructure asset management and risk assessment; integrated management; critical infrastructure protection; management of energy systems; and infrastructure financial management.

Connected
- Selected by the Society of American Military Engineers (SAME) as the national 2012 Publicity Award winner for the school’s eminent contributions to SAME.
- Partnered with contingency asset experts from the Joint Engineer Operations (JEO) officers and civilian engineers into the career field’s first “Total Force” initial skills badge awarding course, ensuring consistent training across the board.
- Provided consultation services for issues in management (e.g., operations, housing, Prime BEEF wartime skills), engineering (e.g., Airfield pavements, HVAC control systems, roofing, Micro-paver) and environmental (hazardous waste management, pollution prevention).

GEM PROGRAM DESCRIPTION

The GEM program is designed for individuals who desire to integrate technical and managerial skills in preparation for operating within a technical environment. Students learn to define problems, formulate approaches to investigate the problems, collect and analyze data with appropriate analytical tools, and interpret findings for managerial action. With coursework in management science, project management, management and risk analysis, systems analysis and behavioral science, students are able to develop their management proficiency within an area of technical specialization; e.g., infrastructure construction or crisis management. The program’s strengths lie in its multidisciplinary approach — core management principles are integrated with graduate-level technical education.

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SIGNIFICANT ACCOMPLISHMENTS

GEM 13
- Ten graduates; two P.E.s; two certified project management professionals.
- Eight conference papers accepted for peer-review conferences (only two presented due to restrictions with non-DOD conference attendance).
- Three peer-reviewed journal papers submitted and in review.
- Supporting research sponsored by external grants valued at approximately $320,000.

GEM 14
- Twenty-one current students (18 captains, two lieutenants and one master sergeant).
- All student research projects sponsored by external stakeholders.