Civil engineers plan, design, supervise the construction, operate, maintain, inspect, retrofit, and manage many of the facilities and systems in both public and private sectors that are essential to modern life. The civil engineering profession is one of the most stable and most diverse of the engineering disciplines. Civil engineers are employed by consulting firms, public agencies, and start and operate their own business. Workplaces range from construction sites to design offices. Most civil engineers work with some engineering or construction aspect of private and/or public facilities, such as airports, bridges, buildings, coastal structures, dams, environmental remediation of contaminated sites, harbors, highways, offshore structures, pipelines, railroads, transportation systems, tunnels, water collection systems, water distribution systems, water and wastewater treatment facilities, and waterways. Civil engineers are on the forefront of applying the newest technology innovations in engineering and construction.

Civil engineering projects are unique because they require individual planning, analysis, design, construction supervision, performance monitoring, management and retrofitting. Civil engineering projects often require technical, governmental, legal, financial, and social evaluations. The primary objective is to provide the best service for the users while minimizing costs and other undesirable impacts.

The mission of the Zachry Department of Civil and Environmental Engineering (http://engineering.tamu.edu/civil) at Texas A&M University is to prepare our graduates to become professional engineers and leaders in the civil engineering profession by providing our students with a solid education that will enable them to integrate fundamental scientific engineering principles and that will couple with the latest technological advances to facilitate the development of their problem solving skills. Additionally, the department provides opportunities for enhancement of the students’ educational experience through meaningful interactions with the profession, professionally-centered student activities and exposure to the broad field of civil engineering through seminars, practitioner visits, and Professional Day activities.

The faculty of the Zachry Department of Civil and Environmental Engineering strives to ensure that our ever-evolving educational programs accomplish several objectives. First, our faculty must prepare the students to address the current and future civil engineering needs of the State of Texas, the nation and the world by being able to recognize the important geopolitical and public policy needs; and solve technical problems. In addition, the Department provides a curriculum that integrates scientific and technical knowledge with an appreciation for social, economic and political concerns. The curriculum and programs provide opportunities for our students to:

1. build leadership skills,
2. learn professionalism and ethical responsibility, and
3. develop and understanding of the need to engage in lifelong learning.

Finally, the faculty of the Zachry Department of Civil and Environmental Engineering at Texas A&M University promotes the highest academic standards of excellence, quality, and ethics in both our undergraduate and graduate programs, and in doing so create both a culture of excellence and a community of scholars. Through our programs, our faculty and graduates provide local, state, national, and international leadership to a profession that must solve the civil engineering problems facing an increasingly complex society.

The program educational objectives for the undergraduate civil engineering program within the Department of Civil and Environmental Engineering at Texas A&M University are to produce graduates:

1. who are prepared to enter civil engineering practice and/or continue their education through study in graduate and professional programs,
2. most of whom will become practicing civil engineers with most of these becoming licensed professional engineers, and
3. many of whom will pursue advanced studies.

The undergraduate program in civil engineering within the Zachry Department of Civil and Environmental Engineering at Texas A&M is accredited by the Engineering Accreditation Commission of ABET, www.abet.org. Graduate programs in civil engineering are also available. These programs allow further specialization and offer more in-depth study to address more complex technical and management issues. Graduate degrees also offer additional employment opportunities.

Before commencing course work in the major, students must be admitted to the major or have the approval of the department.

### Faculty

- **Abdel-Wahab, Ahmed I**, Professor  
  Civil & Environmental Engineering  
  PhD, Texas A&M University, 2003

- **Abedi Mashhadimighani, Sara**, Professor  
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- **Appleton, Robert A**, Associate Professor of the Practice  
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- **Autenrieth, Robin L**, Professor  
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- **Banks, Margaret K**, Distinguished Professor  
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- **Batchelor, Bill**, Senior Professor  
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**Majors**

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- Bachelor of Science in Civil Engineering, Construction Engineering and Management Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/construction-engineering-management-track)
- Bachelor of Science in Civil Engineering, Environmental Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/environmental-engineering-track)
- Bachelor of Science in Civil Engineering, General Civil Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/general-civil-engineering-track)
- Bachelor of Science in Civil Engineering, Geotechnical Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/geotechnical-engineering-track)
- Bachelor of Science in Civil Engineering, Structural Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/structural-engineering-track)
- Bachelor of Science in Civil Engineering, Transportation Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/transportation-engineering-track)
- Bachelor of Science in Civil Engineering, Water Resources Engineering Track (http://catalog.tamu.edu/undergraduate/engineering/civil/bs/water-resources-engineering-track)
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