



Digital Construction Engineering and Management

College of Engineering
www.aus.edu/cen



Digital technology has revolutionized the field of construction engineering. Today, the field of digital construction engineering and management utilizes digital methods to improve the stages of construction to be more efficient and higher quality. This innovative approach presents numerous opportunities that span the entire construction life cycle. Digital technologies, such as building information modeling (BIM), present engineers with enhanced efficiency in resource allocation and scheduling, better planning and execution of projects by providing precise and accurate measurements, more sustainable construction practices, enhanced safety conditions, and adoption of autonomous equipment that enables faster and greater precision in completing projects.



Possible Career Options

- Construction Engineer
- BIM Engineer
- BIM Manager
- Planning Engineer
- Digital Construction Engineer
- Digital Construction Manager
- Project Manager



Possible Employers

- Engineering Firms
- Construction/Project Management Consulting Firms
- Contracting Firms
- Public Entities



Skills Acquired

- Ability to communicate and work well with others
- Problem-solving skills
- Attention to detail
- Critical-thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team



Personal Attributes

- Capacity for analytical and logical thinking
- Skills with numbers
- Imaginative
- Integrity
- Resourceful
- Achievement Oriented



Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in a construction firm
- Volunteering as a research assistant in a university's civil engineering department
- Develop technical skills by attending conferences and reading books and articles
- Attend workshops related to the field
- Joining a professional organization or a related student club