

# ENGINEERING TECHNOLOGY - M.E.T.

College of Aeronautics and Engineering  
www.kent.edu/cae

## About This Program

The Master of Engineering Technology degree equips you with the skills and knowledge to excel in fields like manufacturing, robotics, quality control and computer engineering. Our expert faculty bring years of industry experience to the classroom, ensuring you graduate with a deep understanding of the latest technologies and techniques. Enroll now to jump start your career or take it to the next level. Read more...

## Contact Information

- Program Coordinator: **Ali Abdul-Aziz, Ph.D., P.E.** | CAEgraduatestudies@kent.edu | 330-672-1032
- Connect with an Admissions Counselor: U.S. Student | International Student

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus

## Examples of Possible Careers and Salaries\*

### Aerospace engineering and operations technologists and technicians

- 7.0% faster than the average
- 11,900 number of jobs
- \$68,570 potential earnings

### Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other

- 2.1% slower than the average
- 91,600 number of jobs
- \$64,190 potential earnings

### Civil engineering technologists and technicians

- 2.5% slower than the average
- 70,900 number of jobs
- \$54,080 potential earnings

### Electrical and electronic engineering technologists and technicians

- 1.5% slower than the average
- 125,800 number of jobs
- \$67,550 potential earnings

### Electro-mechanical and mechatronics technologists and technicians

- 3.0% about as fast as the average
- 14,600 number of jobs
- \$59,800 potential earnings

\* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup>
- Minimum 2.750 undergraduate GPA on a 4.000-point scale<sup>1</sup>
- Official transcript(s)
- Goal statement (one page) describing applicant's background, interests, and goals, and how this program will help to achieve those goals
- Three letters of recommendation<sup>2</sup>
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score
  - Minimum 79 TOEFL IBT score
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 100 Duolingo English score

An admissions committee of the College of Aeronautics and Engineering graduate faculty review all applications. Admission will be considered by examination of the applicant's background on an individual basis. Applicants with deficiencies may be admitted conditionally, which may include a requirement for completion of appropriate undergraduate coursework that will not count toward the master's degree.

<sup>1</sup> Applicants with an undergraduate degree in an approved science or technology related discipline and who have a minimum composite undergraduate 2.750 GPA will be admitted unconditionally. In exceptional cases, an applicant without a technical degree or with a composite GPA below 2.750 may be admitted conditionally based on strong letters of recommendation or significant experience related to the intended area of study. These applicants should submit any additional information that may assist the admissions committee in assessing their academic, technical or professional background and abilities. The additional information may include a résumé or professional portfolio summarizing any relevant technical

competencies, professional experience, and any academic and professional achievements in areas related to the applicant's intended studies.

<sup>2</sup> The letters should come from an individual familiar with the applicant's academic or professional background and abilities. The letters should attest to the applicant's potential to complete graduate work successfully. Letters of recommendation from persons who are experienced professionals in the applicant's intended field of study or in a closely related area are acceptable. Recommendations from former or current professors are preferred.

## Application Deadlines

- **Fall Semester**
  - Application deadline: March 1
- **Spring Semester**
  - Application deadline: August 1

*Applications submitted after these deadlines will be considered on a space-available basis.*

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ENGR 57200	SYSTEMS ENGINEERING	3
ENGR 57210	SUSTAINABLE ENERGY I	3
ENGR 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
ENGR 65500	QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY	3
Business or Math Electives, choose from the following:		6
BA 64036 & BA 64060	BUSINESS ANALYTICS and FUNDAMENTALS OF MACHINE LEARNING <sup>1</sup>	
MATH 50015 & MATH 50024	APPLIED STATISTICS and COMPUTATIONAL STATISTICS	
Major Electives, choose from the following:		9
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT <sup>2</sup>	
Computer Engineering Technology Specialization		
ENGR 56312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	
ENGR 63010	INFORMATION TECHNOLOGY FUNDAMENTALS	
Manufacturing Specialization		
ENGR 52363	MATERIALS SELECTION IN DESIGN AND APPLICATIONS	
ENGR 52410	ENGINEERING OPTIMIZATION	
ENGR 53550	COMPUTER-AIDED MANUFACTURING	
Robotics Specialization		
ENGR 60092	INDUSTRIAL PRACTICE <sup>3</sup>	
ENGR 62610	INDUSTRIAL ROBOTICS AND VISION SYSTEMS	
ENGR 62611	INDUSTRIAL ROBOTICS AND VISION SYSTEMS LABORATORY	
ENGR 62620	INDUSTRIAL AUTOMATION AND CONTROL	
ENGR 62621	INDUSTRIAL AUTOMATION AND CONTROL LABORATORY	
Quality Specialization		

ENGR 60020	QUALITY STANDARDS	
ENGR 65550	DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY	
ENGR 65700	APPLIED RELIABILITY ENGINEERING	
<i>Culminating Requirement</i>		
ENGR 60092	INDUSTRIAL PRACTICE <sup>3</sup>	3-4
or ENGR 62710 & ENGR 62711	ADDITIVE MANUFACTURING and ADDITIVE MANUFACTURING LABORATORY	
<b>Minimum Total Credit Hours:</b>		<b>30</b>

<sup>1</sup> BA 64036 and BA 64060 are offered both online and in person.

<sup>2</sup> ENGR 60003 is offered online only.

<sup>3</sup> If a student desires to take both the Industrial Practice and Additive Manufacturing sequence, ENGR 60092 will count as a major elective.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply engineering and technology management principles and practices.
2. Conduct planning, organizing, decision-making and management of technology and complex systems.
3. Apply problem-solving and creative-thinking skills in technical and interdisciplinary settings.
4. Conduct design, business analysis, statistical analysis and the development and implementation of applied engineering and technology in various engineering, science and technology venues.

## Full Description

The Master of Engineering Technology degree offers a curriculum that provides students with advanced technical and management knowledge and skills to meet the needs of the technical workforce in industry and business. The program orients and educates students in critical emerging areas of engineering, including additive manufacturing, sustainable energy, materials selection, quality systems, systems engineering, computer aided-manufacturing and design, industrial automation and robotics, information technology and network management and business analytics.