ROBOTICS AND MANUFACTURING ENGINEERING TECHNOLOGY

Enrollment and Graduation Data

Fall 2018 Enrollment – 27

2017-18 Graduates – 6 BS degrees conferred

Program Objectives
Graduates from RIT's Manufacturing Engineering Technology Program will be:

- Leaders in an industrial workplace with strong ethics and communications skills; able to participate on and lead teams with diverse technical and personal backgrounds.
- Able to apply statistically based quality principles as well as automation and robotics to produce successful products while minimizing production costs.
- Able to understand the economics of the entire manufacturing cycle, including domestic and international supply chain management.
- Able to integrate a broad practical manufacturing engineering technology background with current advances in materials, manufacturing, electronics, and big data analysis to produce cutting edge products while minimizing cost and environmental impacts.
- Life-long-learners who are able to grow professionally by seeking out opportunities for training and certifications.

Student Outcomes

General Criteria

a. an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;

b. an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies

c. an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;

d. an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;

e. an ability to function effectively as a member or leader on a technical team;

f. an ability to identify, analyze, and solve broadly-defined engineering technology problems;

g-w. an ability to apply written and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;

g-o. an ability to apply oral and graphical communication in both technical and non-technical environments
h. an understanding of the need for and an ability to engage in self-directed continuing professional development;

i. an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;

j. a knowledge of the impact of engineering technology solutions in a societal and global context

k. commitment to quality, timeliness, and continuous improvement.

**Program Specific Criteria**

MFET1. apply materials and manufacturing processes to the solution of manufacturing problems to achieve manufacturing competitiveness

MFET2. apply product design process, tooling, and assembly to the solution of manufacturing problems to achieve manufacturing competitiveness

MFET3. apply manufacturing systems, automation, and operations to the solution of manufacturing problems to achieve manufacturing competitiveness

MFET4. apply statistics, quality and continuous improvement, and industrial organization and management to the solution of manufacturing problems to achieve manufacturing competitiveness