Potential Careers

NMU’s Electronics Engineering Technology Program prepares students for employment in the following careers:

Occupations

- Application Engineer
- Control Engineer
- Field Service Engineer
- Electronics Technician
- Medical Field Service Engineer
- Operations Engineer
- Project Engineer
- Project Engineering Technician
- Project Manager
- Software Engineer
- Test Engineer

Additional Resources and Info

For Career Planning and Opportunities:
Academic & Career Advisement Center
3302.1 C.B. Hedgcock
906-227-2971
www.nmu.edu/acac

Engineering Technology Department
101 Jacobetti
906-227-2141
www.nmu.edu/engineering

For Job Search, Resume and Career Information:
Career Services
3302.3 C.B. Hedgcock
906-227-2800
www.nmu.edu/careers

For Information about NMU Student Organizations Associated with this Major Contact:
Center for Student Enrichment
1206 University Center
906-227-2439
www.nmu.edu/cse

Society of Automotive Engineers Baja Racing Club

Internet Resource Links:
www.careers.org
www.careerresource.net

For Career Information with National Organizations:

www.ieee.org Institute of Electrical and Electronic Engineers (IEEE)
www.aaes.org American Association of Engineering Societies, Inc.

Current as of Fall 2015
Provided by:

The Academic & Career Advisement Center
Electronic Engineering Technology

Electronic Engineering Technology is a professional career field involving the design, testing, installation and maintenance of all types of electrical equipment. Graduates are employed in a variety of technical fields including product design, prototyping, testing, automation/robotics, instrumentation, equipment installation and maintenance. Because of their wide range of specialties and capabilities, Electrical Engineering Technologists are employable in numerous industries, and enjoy excellent starting salaries/opportunities for career advancement.

Skills and Competencies

Electronic Engineering Technologists perform a variety of important functions in industry, it is important for them to be literate in a number of areas. You must not only learn the current technology, you must also become a self-directed learner to keep up with technological advancements. You will need to apply current knowledge and adapt to emerging applications as well as improve current installations. A strong background in electrical basics with area specific knowledge will allow you to learn and adapt to evolving technology. Being able to work in teams to identify, analyze and solve technical problems in essential, as are effective communication skills. As an engineering professional, you need to be conscious of societal and global issues that affect your decisions.

Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with liberal studies and graduation requirements.

**Core**
- ET 112 DC Circuit Analysis (4 cr.)
- ET 113 AC Circuit Analysis (4 cr.)
- ET 210 Discrete Semiconductors (4 cr.)
- ET 211 Digital Electronics (4 cr.)
- ET 212 Advanced Linear Circuits (4 cr.)
- ET 250 Industrial Electrical Machinery (4 cr.)
- ET 252 Industrial Motor Controls (4 cr.)
- ET 311 Applied Programmable Controllers (4 cr.)
- ET 321 Embedded Systems Programming (4 cr.)
- ET 360 Process Control Systems (4 cr.)
- ET 410 Testing and Data Acquisition Techniques (4 cr.)
- ET 415 Controls (3 cr.)
- ET 420 Microcontroller Applications (4 cr.)
- ET 431 Senior Project I (4 cr.)
- ET 432 Senior Project II (4 cr.)

**Other required courses**
- CH 105 Chemical Principles (4 cr.)
- DD 105 Schematic/Diagram Drafting (2 cr.)
- IT 180 Introduction to Fluid Power (3 cr.)
- IT 214 Industrial Observation (1 cr.)
- IT 215 General Industrial Safety (2 cr.)
- IT 265 Total Productive Maintenance (2 cr.)
- IT 420 Quality Control (3 cr.)
- MA 104 College Algebra w/ App in Science & Tech (4 cr.)
- MA 106 Trigonometry (3 cr.)
- MA 171 Introduction to Probability and Statistics (4 cr.)
- MA 271 Calculus with Applications (4 cr.)
- PH 201 College Physics (5 cr.)
- TE 351 Humanity and Technology (4 cr.)

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a professional related internship is a way to develop your professional skills and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

Career Development

You must be able to keep up with rapid advances in technological applications.

Additional Considerations

It is necessary to have good communication skills, be organized and pay attention to detail. Some positions will require supervisory or management skills.

Job Outlook

Starting salaries are contingent upon geographic location and individual work experience. Median income for the profession is $50,660. Starting income figures were not available. Job growth is scheduled to be as fast as average, hovering around 7%.