Biomedical engineering technologists develop, calibrate, and repair critical medical instruments such as surgical robotics, patient monitoring systems, and imaging devices, including X-ray and MRI machines and CAT scanners. By ensuring electrical equipment meets safety standards, they also contribute to keeping staff and patients safe. They work in a variety of settings, often supporting healthcare professionals in hospitals and clinics. Others may choose to work in industry, private research labs, or in sales positions for biomedical manufacturers.

Why Biomedical Engineering Technology at Lawrence Tech?

Lawrence Tech’s BS in Biomedical Engineering Technology is among the few four-year degree programs offered nationally and the first of its kind in Michigan. Whether you are just starting your education or have an associate degree in biomedical technology, this program can prepare you for a career working with the most advanced technologies used in today’s healthcare industry.

Combining classical engineering technology and the practical applications of biomedical technologies, with an added focus on project management and network system administration, the program can take you far beyond the typical two-year degree in the field, increasing your educational, leadership, and career advancement opportunities.

The rigorous curriculum will provide you with the strong foundation in electronics, science, and math you will need to master biomedical engineering technologies and practices. Course work and labs encompass biomedical control systems and circuitry, biotech electronics, embedded processors, imaging technologies, and the application of lasers and electro-surgery. You will also study the standards and safety requirements required to maintain proper operation of these systems and equipment.

**CURRICULUM**

Your 126-credit-hour program consists of:

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical core and electives</td>
<td>45</td>
</tr>
<tr>
<td>Engineering technology</td>
<td>25</td>
</tr>
<tr>
<td>English, Social Sciences, Leadership, and electives</td>
<td>26</td>
</tr>
<tr>
<td>Math and Science</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>126</strong></td>
</tr>
</tbody>
</table>

**Sample Core Courses**

- Bio-imaging Technology
- Biometrics
- Biotech Control Systems
- Biotech Practicum
- Introduction to Anatomy and Physiology
In keeping with Lawrence Tech’s commitment to theory and practice, laboratory hours comprise a healthy 20 percent of your total credit hours. Other real-world opportunities include an internship and the senior project – an invaluable experience all Lawrence Tech engineering technology students undertake – during which you will utilize your accumulated knowledge and experience, while working independently and in collaboration with team members.

**Getting Started**

For more information, contact Lawrence Tech’s Office of Admissions at 800.225.5588 or admissions@ltu.edu. For specific questions about the Bachelor of Science in Biomedical Engineering Technology, call 248.204.2060 or email techchair@ltu.edu.

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**Graduates with a BS in Biomedical Engineering Technology have many career options in the healthcare industry:**

- Customer support
- In-service training on patient equipment
- Medical equipment diagnostics and repair
- Medical products marketing and sales
- Product manufacturing
- Product testing
- Research and development

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**GET MORE. DO MORE.**

Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why most Lawrence Tech students are employed within a month of graduating and the earning power of a Lawrence Tech bachelor’s degree ranks in the top third of all U.S. universities. Your benefits:

- Leadership Program that helps you develop the marketable skills that employers seek
- Leadership Portfolio that enhances your diploma – and your resume
- 12:1 student-faculty ratio
- Faculty with current industry experience
- High-end personal computer customized with all needed software – a benefit, valued up to $15,000, unique in Michigan and nationally
- Schedules that work for you, with convenient day, evening, weekend, or online classes
- High-tech, wireless 102-acre campus that’s commuter friendly, with recreation, housing, and meal service options
- Financial-aid, co-op, and internship opportunities
- Proactive career placement services

Explore over 100 undergraduate, master’s, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.