This LSSC program is right for you if:

- You are a motivated, self-starter
- You are a team player
- You are tech-savvy and enjoy learning about new technology
- You enjoy working with hand tools
- You are talented in math and science
- You enjoy being a leader on projects
- You are a responsible individual with a keen attention to detail
- You are safety-minded
- You can work effectively under pressure

HOW DO I GET STARTED?

1. Contact the Program Manager to schedule a career consultation.
2. Complete an online admission application at LSSC.EDU.
3. Complete the Free Application for Federal Student Aid (FAFSA).
4. Submit official PERT, ACT, or SAT test scores or take the PERT placement test.

ENGINEERING TECHNOLOGY

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SUMTERVILLE, FL 33585
PHONE: 352-568-0001
EMAIL: SEIGWORR@LSSC.EDU

APPLY TODAY
www.lssc.edu/admissions

Associate in Science Degree in Engineering Technology

Relay/Substation Tech Specialization
**What is this degree about?**

The Engineering Technology (ET) degree program is a comprehensive and cohesive two-year program focusing on a set of ET Core classes that transfer seamlessly to a number of Bachelor of Applied Science Degrees offered at Florida's universities, state colleges and community colleges. The 2 + 2 agreements apply 60 credit hours of an A.S. Degree directly to the 4-year bachelor's degree. The ET Core classes, combined with a second-year degree specialization, will prepare you for more than 307,000 jobs in the high-demand technology industries in Florida where the average annual starting salary is $45,000 and upward.

**What does a Relay/Substation Tech do?**

A Relay/Substation Tech is responsible for installing and maintaining relay and control equipment in electrical substations, which is responsible for the generation, transmission, and distribution of electricity from a power plant to its final destinations. The Tech is a vital member of a project management team and spends much of their work day on construction sites. The Tech uses instruments to find readings through computer software or other tools such as a volt meter. The Tech is the first person on the site and is generally the last person to leave the site, making them one of the most responsible and reliable people on the team.

**Relay/Substation Tech Specialization**

The Relay/Substation Tech Specialization provides students with the skills and knowledge to maintain and manage the transmission and distribution of power through electric utility systems. Coursework will cover theory in three phase power, protective relaying, power transformers, high voltage breakers, and electrical utility print reading and miscellaneous substation systems. Graduates with an A.S. in Engineering Technology with a specialization in Relay Substation Technology qualify for entry-level positions as a Relay Technician, Substation Electrician, or Field Service Engineer with utility companies, municipalities, oil fields, corporations and other heavy manufacturing industries that focus on instrumentation and control.

**Engineering Technician Support Certificate**

The ET Core classes also align with the industry-recognized Manufacturing Skill Standards Council Portable Production Technician Certification (MSSC CPT), which is one component of the National Association of Manufacturers (NAM) endorsed Stackable Certification System (SCS). As you work toward your two-year ET degree, you will earn an Engineering Technology Certificate and will be prepared to take the MSSC test.

**Degree Sponsorships**

This program was made available through the support of Duke Energy, CEMEX, Power Grid Engineering and Elite Construction. Their contributions and donations to LSSC ensure that students are trained with the same tools and equipment used on the job. The College’s partnership with Duke Energy also provides a limited number of internship opportunities for students.

**Courses Required for Degree**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>General Education</td>
<td>15</td>
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<tr>
<td>Required Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>18</td>
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<tr>
<td>Relay/Substation Tech</td>
<td>24</td>
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<td>Program Total</td>
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**General Education Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>College Composition I</td>
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</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
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<tr>
<td>PHY 2020</td>
<td>Physics for Liberal Arts w/Lab</td>
<td>3</td>
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<tr>
<td></td>
<td>Social/Behavioral Sciences</td>
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<td></td>
<td>Approved Course</td>
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<td></td>
<td>Humanities Approved Course</td>
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**Required Computer Proficiency**

<table>
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<tr>
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<tbody>
<tr>
<td>CGS 1100</td>
<td>Business Computer Applications</td>
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**Engineering Technology Courses**

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<tr>
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<tbody>
<tr>
<td>ETD 1320C</td>
<td>Introduction to CAD</td>
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<tr>
<td>EET 1084C</td>
<td>Introduction to Electronics</td>
<td>3</td>
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<tr>
<td>ETM 1010C</td>
<td>Mechanical Measurement &amp; Instrumentation</td>
<td>3</td>
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<tr>
<td>ETI 1420C</td>
<td>Manufacturing Processes &amp; Materials</td>
<td>3</td>
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<tr>
<td>ETI 1110C</td>
<td>Quality Assurance</td>
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<tr>
<td>ETI 1701C</td>
<td>Industrial Safety</td>
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**Relay/Substation Tech Courses**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ETP 1700C</td>
<td>Introduction to Electrical Utilities</td>
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<tr>
<td>ETP 1138C</td>
<td>Electrical Utility Print Reading</td>
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<td>ETP 1151C</td>
<td>High Voltage Transformers</td>
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<tr>
<td>ETP 1161C</td>
<td>High Voltage Power Circuit Breakers</td>
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<td>PHY 2xxxC</td>
<td>Physics/Trig for Relay Tech</td>
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<td>ETP 1171C</td>
<td>Protective Relaying I</td>
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<td>ETP 1172C</td>
<td>Protective Relaying II</td>
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<td>ETP 1181C</td>
<td>Substations Miscellaneous Systems</td>
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<tr>
<td>ETP 1191C</td>
<td>Capstone &amp; Case Studies</td>
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