



## Personality + Career

You will be successful in our *Electronic Systems Technology* program if you are a problem-solver, technically inclined, enjoy working with your hands and taking things apart and putting them back together.

Technology enhances our lives – people may not realize it, but you will be changing, protecting, and enhancing lives. Electronics can be a misunderstood career field, but it's impacting our lives and industries around the world. Students in this career field are highly sought and receive high-demand, high-paying jobs. While others might be laid off as the economy changes, these positions are not expendable because they require a specific set of skills and training and offer multiple areas in which to work so you can move from one industry to another if you need a change.

Program	Credential	What do students learn in the program?	What do students earn?	Career Opportunities	Are graduates prepared for/to complete exams for specific credentials/licensing/certifications at the end of the program?	Required Tools, Supplies, and Uniforms
AVD/Low Voltage Technician	Certificate	Student learn about A/V systems, site surveys, design, integration, and maintenance. Students also learn to install and maintain low-voltage systems such as fire, security, and nurse call systems and will learn commercial installation and wiring standards as well as how to build and configure networks, routers, and switches.	New program. No salary information available.	Low Voltage Technician	Students are prepared to take the Certified Technology Specialist exam after completing Audio Video Solutions (ELEC 2040).	No uniform is required for this program.
Electronic Systems Technology	Associate of Applied Science	Students gain an in-depth knowledge of electrical concepts, including DC and AC circuits. Additionally, students learn to operate, wire and troubleshoot three-phase motor and control circuits and install and maintain data communication, security/fire alarm, and telephone systems. Choose one of three focus areas: - Electronic Systems Technician: Students learn about digital systems, power supplies, and advanced knowledge of electrical circuits. - Robotics and Automation Focus: Students learn to program Programmable Logic Controllers (PLCs) and study industrial robotic systems. - AVD and Low Voltage Systems Focus: Student learn about A/V systems, site surveys, design, integration, and maintenance.	\$19.15 per hour; \$39,832 annually.	Adjunct Lab Assistant Auto Pilot Bench Technician Avionics Bench Technician Calibration Technician General Maintenance Technician Install Technician Manufacturing Technician MWE Technician	Certifications are not required, but you will be encouraged and given opportunities and assistance to obtain certification in the following while taking classes: • iNARTE Certification (without testing) • J-STD-001 Certification (soldering and inspection of soldering) • Network + • CompTIA A+ International Society of Certified Electronics Technicians (ISCET) • CISCO Certified Network Associate (CCNA) • NCATT Aircraft Electronics Technician Students are prepared to take the Certified Technology Specialist exam after completing Audio Video Solutions (ELEC 2040).	No uniform is required for this program.

Electronic Systems Technology offers **military students** with an electronics background and training the opportunity to apply their training and reduce the courses necessary through credit by waiver to complete the degree. Based upon the military training transcript, you and the program chair will select courses that will enhance technical expertise. Up to two-thirds of the technical courses can be transferred in for a technician focus or Computer, Automation, AVD and Low Voltage Systems Focus.

### » Your Next Steps to Choose SCC

- ▶ Schedule a Campus Visit - [southeast.edu/visit](https://southeast.edu/visit)
- ▶ Explore career options with an Admissions Counselor - [southeast.edu/admissionsadvising](https://southeast.edu/admissionsadvising)
- ▶ Apply - [southeast.edu/applynow](https://southeast.edu/applynow)

### » Paying for SCC

- ▶ Free Application for Federal Student Aid (FAFSA) - [studentaid.gov/h/apply-for-aid/fafsa](https://studentaid.gov/h/apply-for-aid/fafsa)
- ▶ Scholarships - [southeast.edu/scholarships](https://southeast.edu/scholarships)
- ▶ Payment Plan - [mycollegepaymentplan.com/southeast](https://mycollegepaymentplan.com/southeast)
- ▶ Veteran Education Benefits - [southeast.edu/veterans-services](https://southeast.edu/veterans-services)
- ▶ GAP Assistance Program - [southeast.edu/gap](https://southeast.edu/gap)
- ▶ Children of State Teammate Tuition Reimbursement Program - [southeast.edu/children-of-state-teammate-tuition-reimbursement-program](https://southeast.edu/children-of-state-teammate-tuition-reimbursement-program)



Scan this code to access the course listing

### Contact Admissions to get started!

402-437-2600, 800-642-4075 ext. 2600

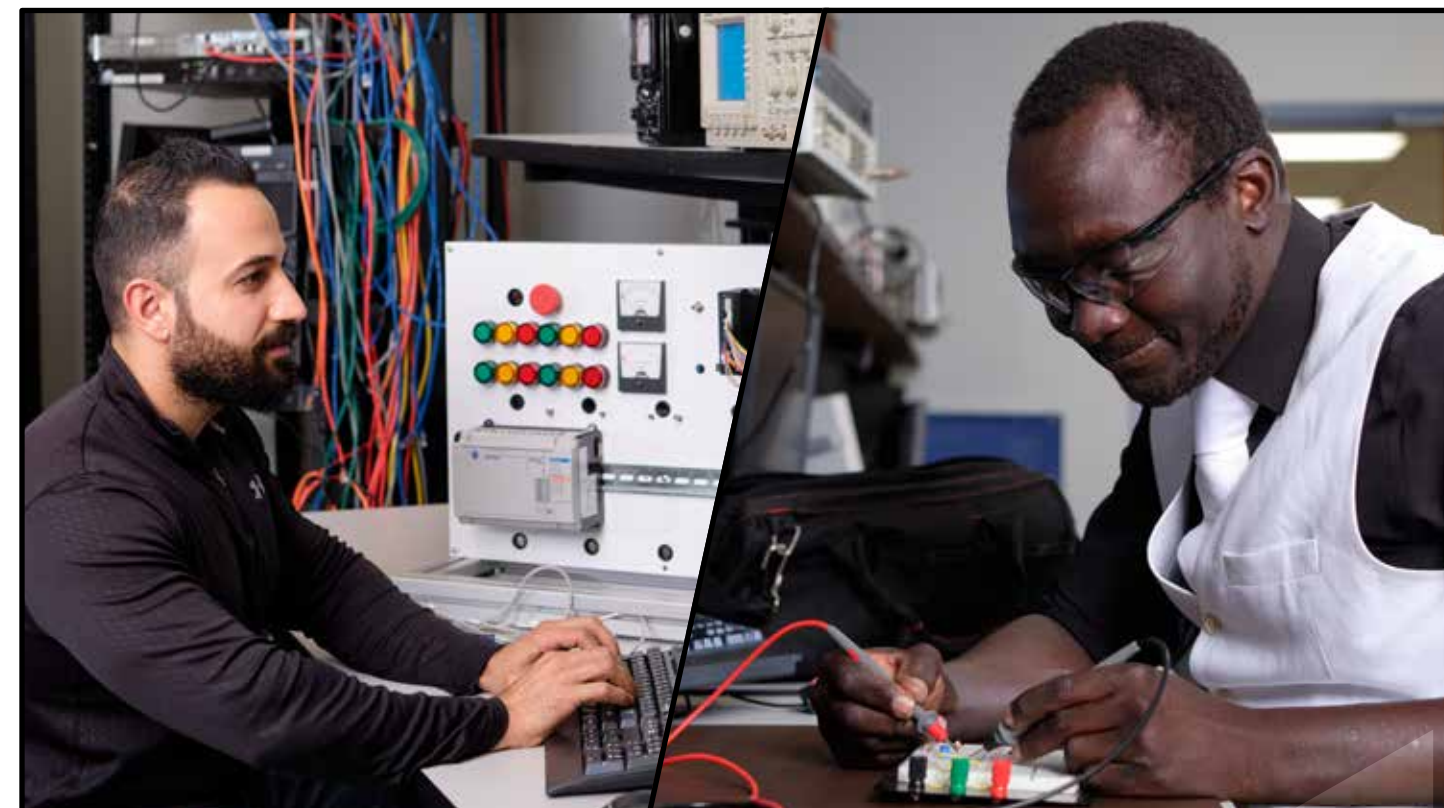
✉ [admissions@southeast.edu](mailto:admissions@southeast.edu)



2022-2023

# Electronic Systems Technology

» [southeast.edu/electronicssystemstech](https://southeast.edu/electronicssystemstech)



In *Electronic Systems Technology*, we teach you to “troubleshoot to the component-level repair,” meaning you will figure out which part of an electronic system is malfunctioning rather than simply replacing the entire device or board.

You will learn to repair, install, program, and troubleshoot systems found in many industries, including: **manufacturing** such as automation in factories and machines in the trades; **AV distribution** such as audio/visual systems; **avionics** such as communication systems, radar, and ground telemetry; **biomedical** devices such as paging, alarm, and MRIs; **security/military equipment, communication** systems such as cell phone hardware, and electrical systems found in retail/grocery, and agriculture such as irrigation and other devices. Troubleshooting skills are what employers are looking for since systems are continually evolving and advancing.

When you start in our program, our instructors assume you have no prior electronics knowledge so you begin by building basic terminology and skills and advance from there. It's our role to teach you what you need to know and help you develop your skills. You'll learn and become an expert by the end of the program.

### Program Contact Information

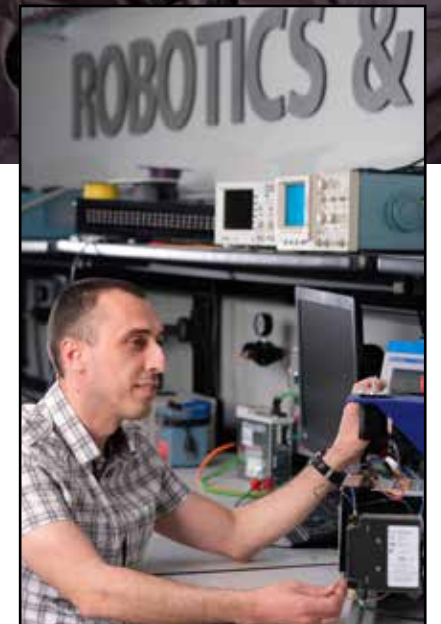
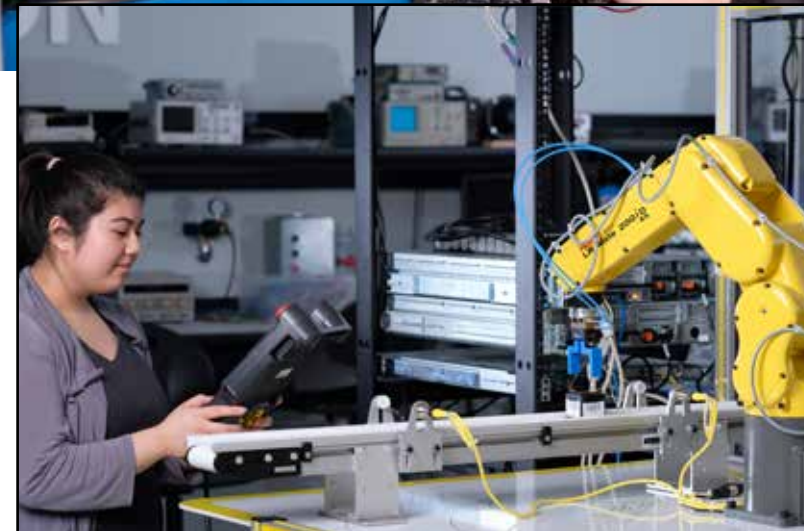
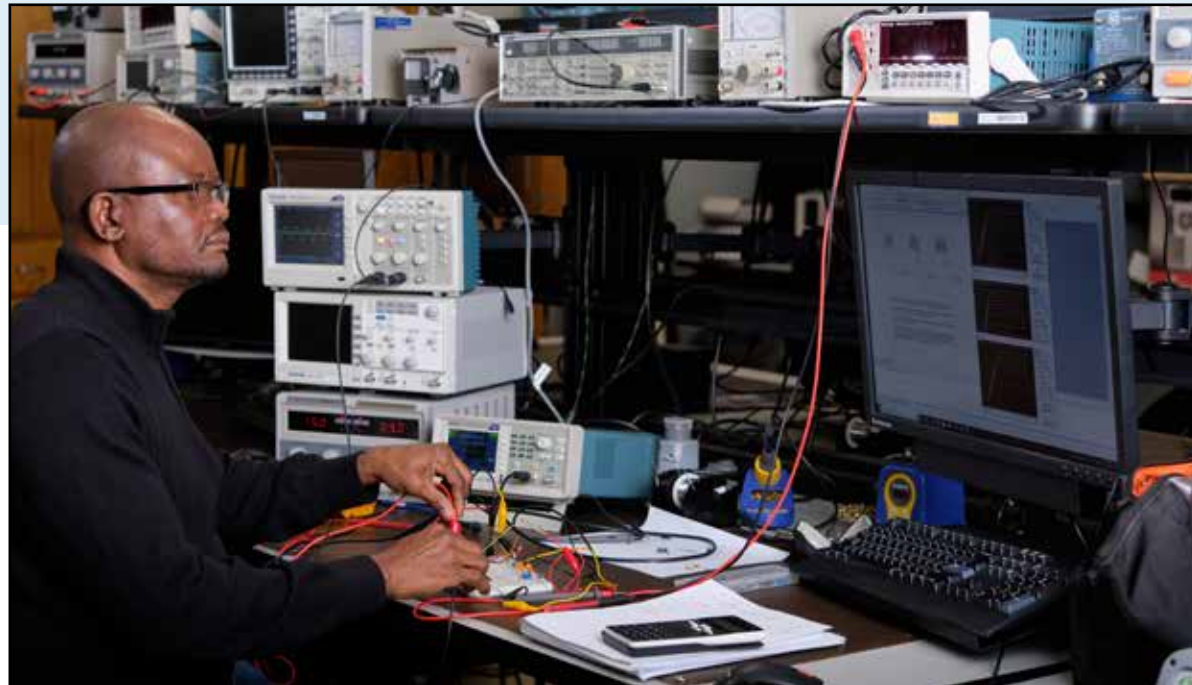
Mike Aalberg, Program Chair

402-437-2658, 800-642-4075 ext. 2658

✉ [maalberg@southeast.edu](mailto:maalberg@southeast.edu)

# The SCC Experience

- » You'll be prepared for a variety of career paths, including working on a bench as a technician repairing equipment being manufactured and/or repairing existing equipment, to traveling to different locations installing and repairing equipment.
- » The Electronic Systems Technology program is flexible! Earn a degree when it's convenient for you. We offer day and evening courses to meet your schedule needs.
- » The program is hands-on. You'll spend approximately 50% of your time in the lab and the other 50% in the classroom learning the theory needed to excel in the field. The hands-on experience prepares students to excel!
- » Employers recruit from this program looking for interns and apprentices hoping to hire full-time once the program is completed. Internships or apprenticeships are not required, but there are many opportunities available.



Program	Credential	Location	Hours Required to Graduate	Resident cost*	Non-Resident cost*	Starting Term(s)	Number of Semesters Required to Complete at Full Time Status?	Is a summer term required for FT students?	Is there an online option for students?	Can the program be completed entirely online?	Is there a Part-Time Option?	Typical Class Schedule
AVD/Low Voltage Technician	Certificate	Lincoln	15	\$2,417	\$2,732	Fall and Spring	2	No, but students can complete general education courses during the summer term.	No	No	No	Courses are scheduled Monday - Friday between 8 a.m. - 10 p.m. Students select courses based on their schedule.
Electronic Systems Technology – Electronic Systems Technician Focus	Associate of Applied Science	Lincoln	64	\$9,036	\$10,380	Fall and Spring	4	No, but students can complete general education courses during the summer term.	No	No	Yes	Courses are scheduled Monday - Friday between 8 a.m. - 10 p.m. Students select courses based on their schedule.
Electronic Systems Technology – Robotics and Automation Focus	Associate of Applied Science	Lincoln	62.5	\$8,699	\$10,011	Fall and Spring	4	No, but students can complete general education courses during the summer term.	No	No	Yes	Courses are scheduled Monday - Friday between 8 a.m. - 10 p.m. Students select courses based on their schedule.
Electronic Systems Technology – AVD and Low Voltage Systems Focus	Associate of Applied Science	Lincoln	61	\$7,799	\$9,080	Fall and Spring	4	No, but students can complete general education courses during the summer term.	No	No	Yes	Courses are scheduled Monday - Friday between 8 a.m. - 10 p.m. Students select courses based on their schedule.

\*Listed program costs are approximate and subject to change based on market price of books, supplies, tools, uniforms, etc. Estimated costs include tuition, fees, books, supplies, tools, uniforms, etc.