

A public school for Rhode Island residents. Grades 9 - 12

# Davies Career-Tech High School

*Educating  
Innovators for  
the 21st Century*



*Home of the  
Patriots*

**50 Jenckes Hill Road  
Lincoln, RI 02865**

401-728-1500

**DaviesTech.org**



## Why Choose Davies?

**At Davies, you get more choices:**

- Choose from career and technical areas in emerging industries.
- Be yourself - inside and outside the classroom. Join a sports team or participate in after-school activities ranging from robotics competitions to multimedia production.
- Graduate with industry certifications and begin your career immediately.
- attend any 2-or 4-year college or technical school.
- Further your education and pay off your tuition at the same time when you enter college work-ready, with an employable skill set. If you work while attending school, some employers will even contribute to your education or training costs.
- Discover your passion and prepare yourself for success, no matter your path.

## Business Partnerships

Do you learn better by doing? Actual hands-on experience is important at Davies. Job shadows and paid/unpaid internships give students the chance to learn new skills and explore new work places. Davies students can participate in work-based learning opportunities at well-known companies and colleges -- like Amica, ARAMARK, CVS, Axalta, RI Hospital, NEIT, JWU, and URI. Students who participate leave Davies not only armed with technical training, but with a resume and contacts in their industry.

**Businesses interested in working with Davies can reach out to the Office of Workforce Development.**

## How to apply to Davies:

During your 8th-grade year of school

- Attend the open house in November.
- Register for the required entrance/placement exam.
- Sit and take the exam.
- Await provisional acceptance.
- Finish 8th grade in good standing.
- Submit all required paperwork.

**DaviesTech.org/admissions**

*The William M. Davies, Jr. Career & Technical High School does not discriminate on the basis of age, sex, race, religion, national origin, color, sexual orientation, gender identify, or disability.*

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ABOUT CAREER AND  
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# Automotive Careers

The Automotive Careers program offers a great opportunity for students to enter the challenging world of automotive service. Students will acquire the necessary entry-level skills to perform regular maintenance, minor or light repairs, and parts installation on all types of automobiles and light trucks. The students' success will be rewarded with certificates in all aspects of the Automotive Careers curriculum.

## Primary Credentials

- ASE Entry Level Certification
- SP2 Safety/Pollution
- ALI Lift Certification
- 609 Certification
- OSHA 10

## Projected Job Outlook

**Automotive Technicians** - The projected percent change in employment from 2021 to 2031. The average growth rate for all occupations is 5 percent.  
**Collision Repair technicians** - Overall employment of automotive body and glass repairers is projected to grow 3 percent from 2021 to 2031. Despite limited employment growth, about 17,000 openings for automotive body and glass repairers are projected each year, on average, over the decade.

## Salary Information

The median annual wage for automotive service technicians and mechanics was \$46,880 in May 2021. The median annual wage for automotive body and related repairers was \$47,270 in May 2021.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Works well in teams, Critical Thinking, Detail Oriented, Communication skills; specifically with service staff, parts staff, and customers, Writing, Research and Data Skills, Creativity, Flexibility, Knows and follows OSHA and EPA guidelines for environmental and shop safety, Knows how to safely use shop equipment such as vehicle lifts, jacks, tire machines, and major shop equipment as it pertains to the automotive field, Performs work as outlined on repair order with efficiency and accuracy, in accordance with dealer, shop and factory standards including the ability to perform but not limited to basic vehicle services such as oil changes, tire rotations, brake flush, coolant flush, perform tire inspection, repair or replacement, inspect vehicles for safety concerns and worn components, able to inspect and replace common wear items such as filters, belts and hoses, braking system

## INTERESTED?

- Attend our open house
- Register and take the entrance exam
- Complete your 8th-grade year in good standing

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# Biomanufacturing Technology

Biomanufacturing is the use of living things or their products to modify or improve human life and the environment. Examples of advances in this field include biochips and microarrays, which “read” huge amounts of DNA using the newest technology. Our students are problem solvers, who love puzzles, and are excited to be scientists through trial-and-error, in a laboratory setting.

## Primary Credentials

- National Occupational Competency Testing Institute (NOCTI)
- OSHA 10

## Projected Job Outlook

Employment of biological technicians is projected to grow 9 percent from 2021 to 2031, faster than the average for all occupations. About 12,200 openings for biological technicians are projected each year, on average, over the decade.

## Salary Information

in May 2021, the median annual wage for all workers was \$45,760.

## Employability Skills & Knowledge

Upon completion of a RIDE Approved Environmental and Life Sciences pathway, the candidate is expected to:

- Demonstrate a well-developed “laboratory sense” regarding Safety Protocols (MSDS), ID and SDS data, FDA Regulations, cGMP, GLP, SOP writing, Sterile Gowning, Documentation, Basic Laboratory Instrumentation, QualityControl Functions in Microbiology and Chemistry, Record Keeping, Aseptic Handling, and Solution.
- Have knowledge of Medical Terminology, Documentation, Basic Mathematics and Computer Skills (i.e., Word Processing and Spreadsheet Analysis), Medical Testing Equipment Knowledge, Medical History, and Review of Systems
- Documentation Knowledge, Bloodborne Pathogens, and Universal Precautions Knowledge).
- Demonstrate Soft Skills, including Interpersonal Communication, Teamwork and Collaboration, Critical Thinking, Conflict Resolution, Ethics, and Professional Demeanor.

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## Education/Childcare

In the Education and Childcare program, Davies trains students in the aspects of teaching and working with young children, from birth through elementary age, to become the educators of tomorrow. Students who seek a career in education and childcare tend to be kind, helpful, organized, and enjoy working with others. Students will address the physical, social, emotional, and cognitive development of the child. The program includes instruction on child growth and development, health, nutrition, safety, and guidance.

### Primary Credentials

- Teacher Assistant Training Program
- First Aid/CPR & AED Training
- OSHA 10
- Red Cross Babysitting & Child Care Certificate
- Rhode Island Early Learning & Development Standards Certificate

### Projected Job Outlook

Kindergarten and Elementary Teachers - Overall employment of kindergarten and elementary school teachers is projected to grow 4 percent from 2021 to 2031, about as fast as the average for all occupations. About 120,300 openings for kindergarten and elementary school teachers are projected each year, on average, over the decade. High school Teachers - Employment of high school teachers is projected to grow 5 percent from 2021 to 2031, about as fast as the average for all occupations. About 77,900 openings for high school teachers are projected each year, on average, over the decade.

### Salary Information

The median annual wage for teachers ranges from Elementary to High School. (\$61,400 to \$61,620)

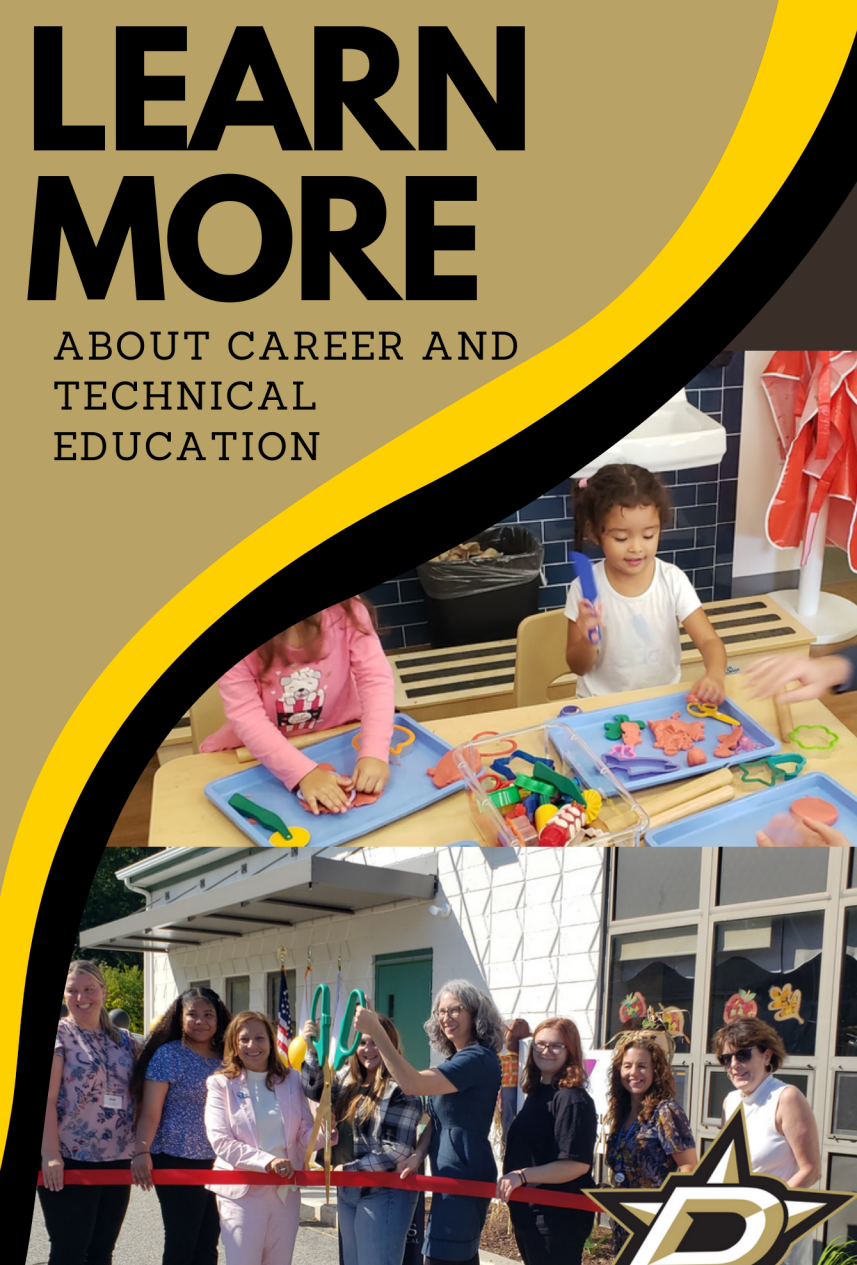
### Employability Skills & Knowledge

Teacher assistants should act in a professional manner at all times, be dependable, reliable, understand and demonstrate confidentiality, be able to pass a BCI check, and maintain a high level of ethical behavior.

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# Electrical & Renewable Energy

Both the electrical and renewable energy industries offer a wide variety of exciting career opportunities. While many electricians work in the construction industry, there are many places to find employment in this field. Companies are always looking to hire skilled workers who can read blueprints and schematics, work with tools in all sorts of environments, and have a willingness to be lifelong learners.

## Primary Credentials

- OSHA 10
- Home Builders Institute
- NCCER
- First Aid

## Projected Job Outlook

Employment of electricians is projected to grow 7 percent from 2021 to 2031, about as fast as the average for all occupations. About 79,900 openings for electricians are projected each year, on average, over the decade.

## Salary Information

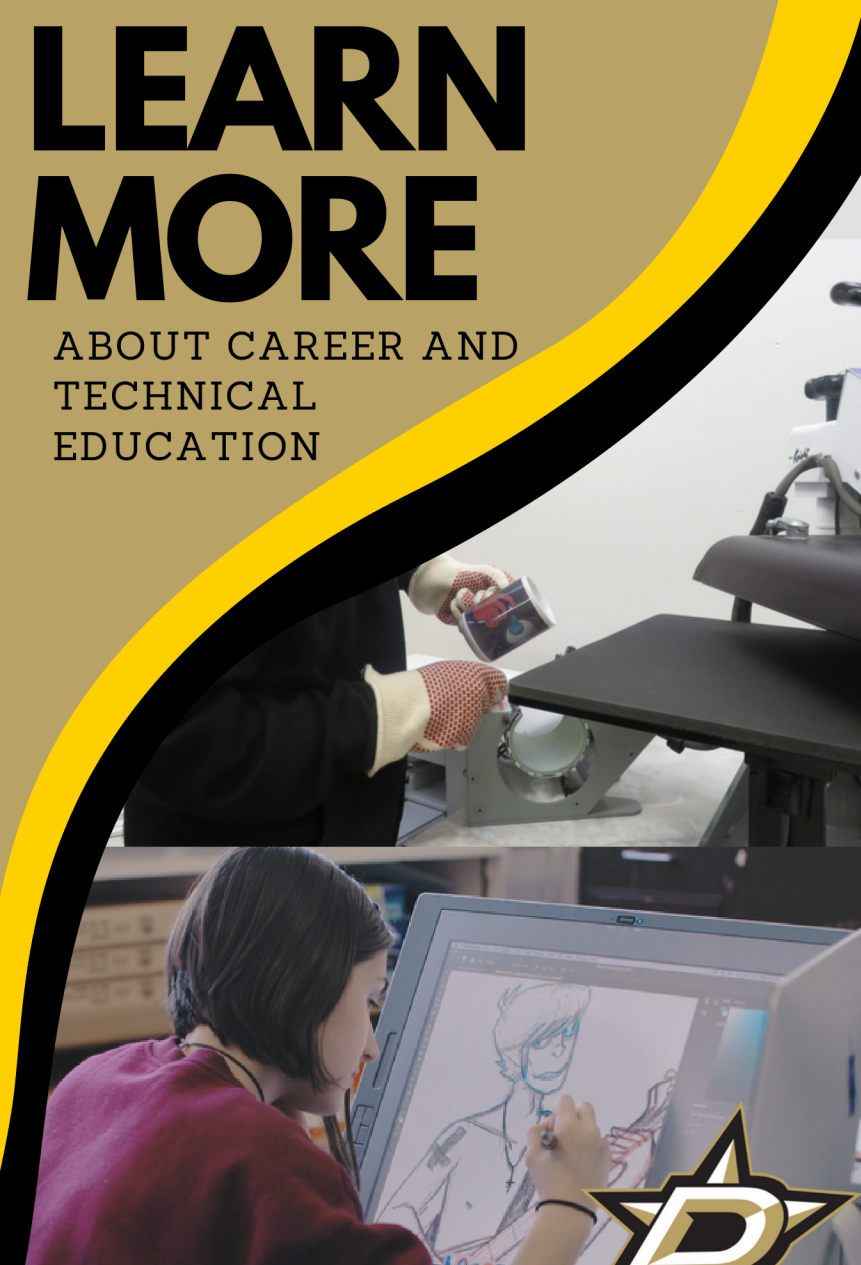
The median annual wage for electricians was \$60,040 in May 2021.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Materials and methods, Construction technology-related drawings, Technology specific equipment and basic operational techniques, Quality control, Communications Skills, Writing skills.

## Occupations to this Pathway

- |   |   |
|---|---|
| • Aircraft & Avionics Equipment Mechanics & Technicians | • Heating, Air Conditioning, and Refrigeration Mechanics and Installers |
| • Drafters  | • Line Installers & Repairers   |
| • Electrical & Electronics Engineering Technicians      | • Power Plant Operators, Distributors, and Dispatchers                  |
| • Installers & Repairers                                | • Solar Photovoltaic Installers   |
| • Elevator Installers & Repairers                       |   |



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# Graphics & Interactive Media

Graphics and Interactive Media is one of the most exciting fields in the communication industry today. It is also one of the fastest growing and technologically advanced forms of media in the world. Industry professionals agree there is no field advancing more rapidly than Graphics and Interactive Media.

## Primary Credentials

- MAVCC/Print[ED]
- Adobe Certification
- Xerox/Konica Minolta
- Post secondary credit in career cluster
- Precision Exams
- NOCTI
- AutoDesk

## Projected Job Outlook

The employment of graphic designers is projected to grow by 3 percent from 2021 to 2031. Despite limited employment growth, about 24,800 openings for graphic designers are projected each year, on average, over the decade.

## Salary Information

The median annual wage for a graphic designer was \$50,710 in May 2021.

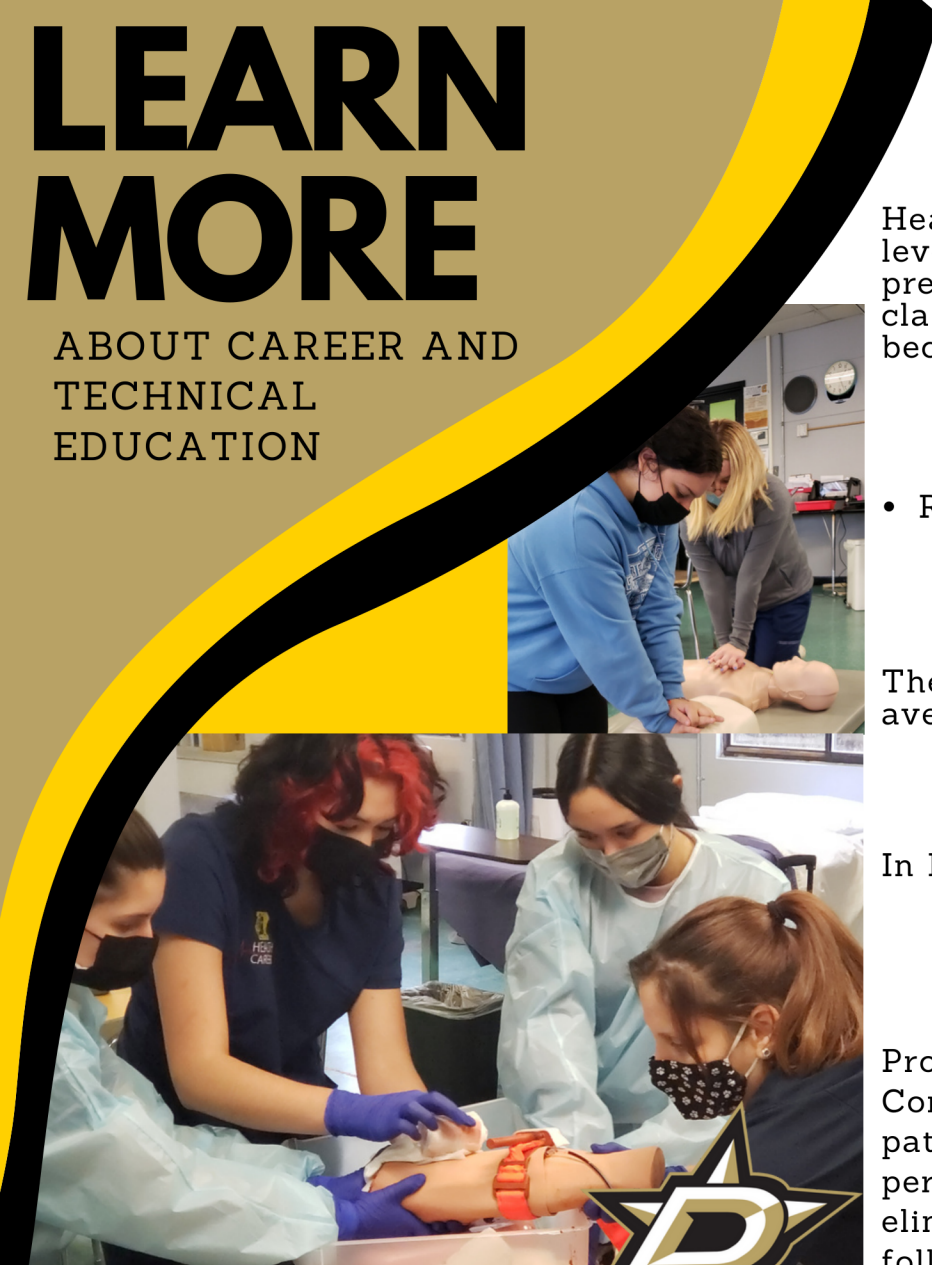
## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative Orientation to the trades, Technology specific equipment and basic operational techniques, Quality control, Artistic ability.

## Occupations to this Pathway

- Desktop Publishing Specialists
- CAD Technicians
- Industrial designers
- Graphic Designers
- Interior Designers, Commercial/Residential
- Commercial Artists, Illustrators, Artists all media
- Commercial Photographers Digital, Still, Video, Film
- Web developers/designers
- Multimedia artists & animators





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# Health Careers

Health Careers will prepare the students for a wide variety of entry-level positions in the health care industry. Students will also be well prepared to pursue higher education. Through a combination of classroom teaching and hands-on lab, students will be eligible for becoming a Certified Nursing Assistant (CNA).

## Primary Credentials

- Rhode Island Nursing Assistant License

## Projected Job Outlook

The projected percent change in employment from 2021 to 2031. The average growth rate for all occupations is 5 percent.

## Salary Information

In May 2021, the median annual wage for all workers was \$45,760.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative. Assist patients/residents with Activities of Daily Living (ADLs) including personal hygiene, dressing and grooming, nutrition and hydrations, elimination, rest/sleep/comfort; Perform basic nursing skills including, following infection control and safety/emergency procedures/practices, therapeutic/technical procedures, data collection and reporting; Assist patients/residents with restorative care skills; Assist patients/residents with restorative care skills; Assist patients/residents with emotional and Mental Health needs; Communicate with medical personnel and patients; Abide by client's rights, legal and ethical behaviors; Be an active member of the healthcare team; and provide care that meets spiritual and cultural needs.

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# Hospitality Careers

The Hospitality Industry is the number two growth industry in the state and country. People with food experience are needed as writers, research technicians, sales and marketing specialists, demonstrators, and trainers. Food professionals are required to deal with obesity problems, nutrition, and food allergies. Chefs and other food professionals need business and management skills as they develop their careers, food trucks and kiosks are the new creative and innovative marketing and advertising methods for chefs to provide food services. Food professionals are leaders in energy conservation, food sustainability, and using locally produced items

## Primary Credentials

- Culinary Arts Cook NOCTI
- Servsafe Manager Certificate
- ACF

## Projected Job Outlook

The projected percent change in employment from 2021 to 2031. The average growth rate for all occupations is 5 percent.

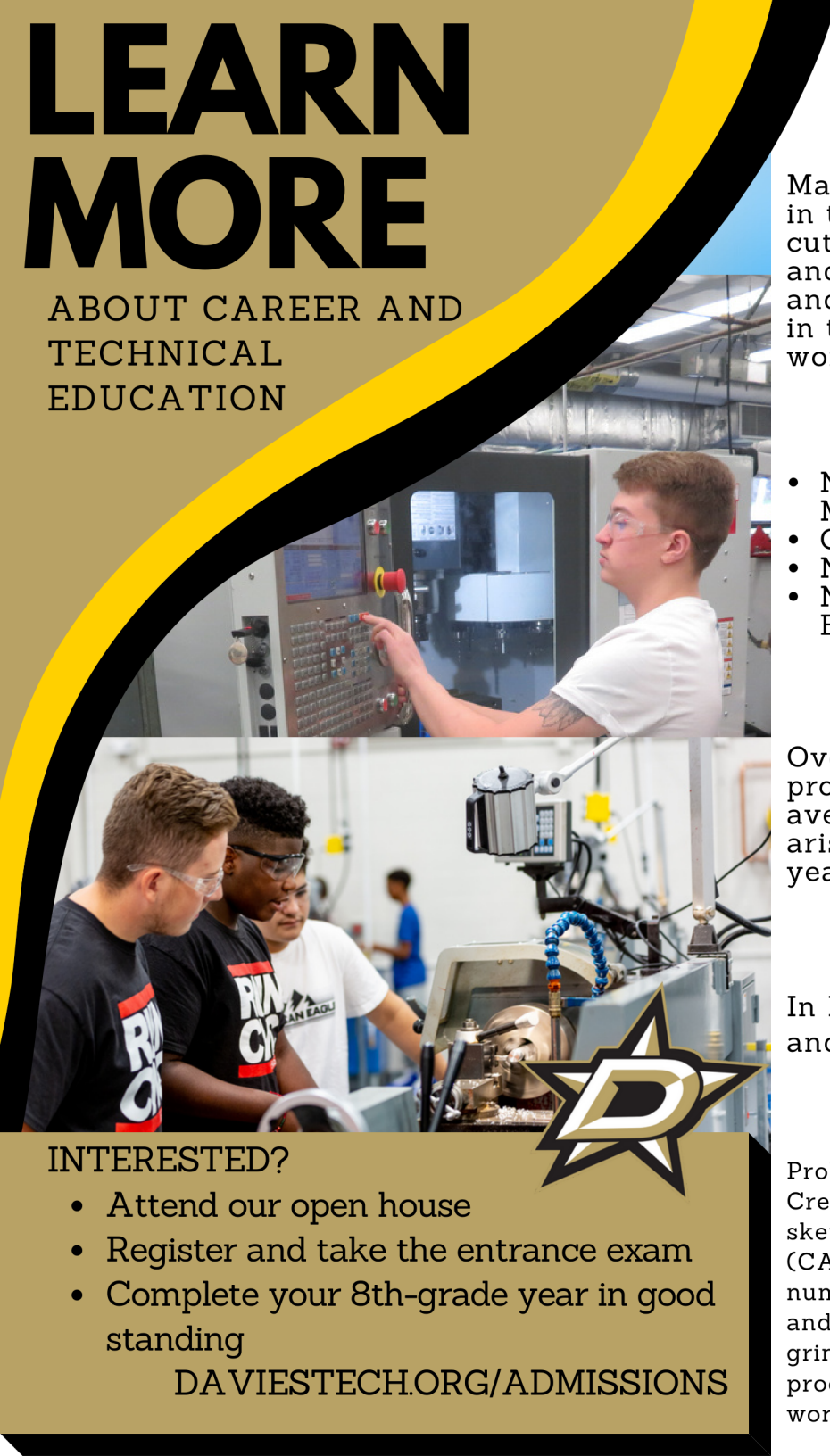
## Salary Information

The median hourly wage for cooks was \$14.00 in May 2021. In May 2021, the median annual wage for all workers was \$45,760.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative, Orientation to the trades, Quality Control, Customer Service, Food Safety Management Proper food storage and handling techniques, Cost Control, Culinary Techniques, Purchasing and Inventory, Marketing and the menu, Knowledge of raw materials, Techniques for maximizing the effective manufacture and distribution of goods, Accountability, Dependability and Presentation.





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# Machine Technology

Machine Technology is one of the most exciting and high-tech fields in the manufacturing industry today. This field involves the use of cutting-edge technology, computers, numerically controlled machines, and the design software that runs them. The field is computer-driven, and high-tech is the name of the game. With the increasing demand in the manufacturing business and the current shortage of skilled workers, jobs are in abundance.

## Primary Credentials

- |  |  |
|--|--|
| • NIMS: Measurement, Materials & Safety    | • NIMS: Turning 1: Chucking                          |
| • OSHA10                                   | • NIMS: CNC Turning: Programming, Setup & Operation  |
| • NIMS: Milling 1                          | • NIMS: CNC Milling: Programming, Setup & Operations |
| • NIMS: Turning 1: Turning Between Centers |  |

## Projected Job Outlook

Overall employment of machinists and tool and die makers is projected to grow 5 percent from 2021 to 2031, about as fast as the average for all occupations. Many job opportunities are expected to arise from the need to replace workers who leave the occupation each year.

## Salary Information

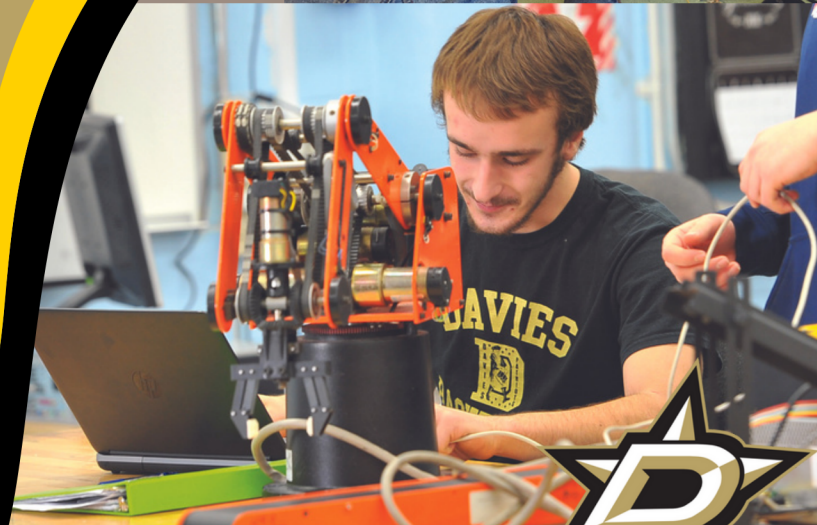
In May of 2021, the median annual wage for machinists was \$47,730 and the median annual wage for tool and die makers was \$57,000.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative Orientation to the trades, Safety, Read blueprints, sketches, or computer-aided design (CAD) and computer-aided manufacturing (CAM) files, Set up, operate, and disassemble manual, automatic, and computer numerically controlled (CNC) machine tools, Align, secure, and adjust cutting tools and workpieces, Monitor the feed and speed of machines, Turn, mill, drill, shape, and grind machine parts to specification, Measure, examine, and test completed products for defects, Smooth the surfaces of parts or products, Present finished workpieces to customers and make modifications if needed.

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# Pre-Engineering Technology

Pre-Engineering Technology is a four-year program that affords students the opportunity to enter the workforce or continue their education at a two or four-year technical school or college. Students are prepared for entry-level employment in diverse fields associated with electronics, robotics, automation, software development, and other areas of technology. Coursework is separated into three content areas: •Electronics Engineering Technology •Computer & Software Engineering • Mechanical & Robotics Engineering. Each pathway exposes students to Engineering Design as they study the design process, engineering documentation, SOLIDWORKS 3D computer-aided design, and the fundamental concepts of engineering.

## Primary Credentials

- NOCTI Pre-Engineering

## Projected Job Outlook

Employment of mechanical engineers is projected to grow 2 percent from 2021 to 2031, slower than the average for all occupations. Despite limited employment growth, about 17,900 openings for mechanical engineers are projected each year, on average, over the decade.

## Salary Information

The median annual wage for mechanical engineers was \$95,300 in May 2021.

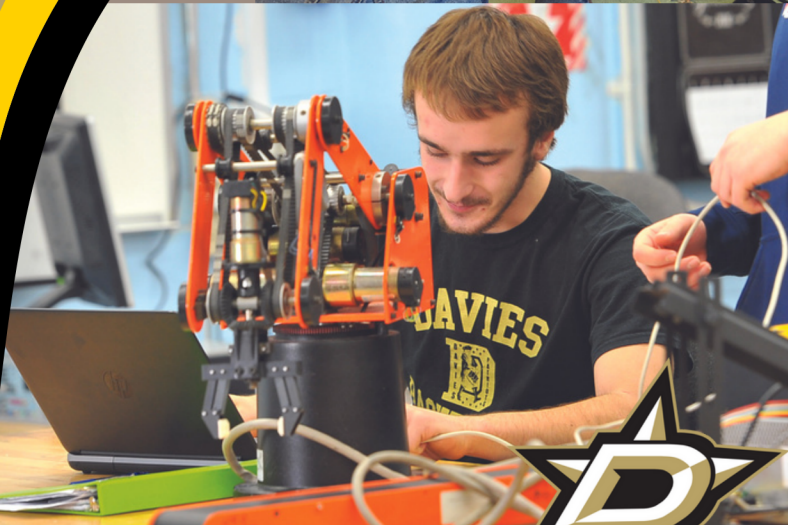
## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative, Apply knowledge of mathematics, science, and engineering, design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social-political, ethical, health and safety, manufacturability, and sustainability, function on multidisciplinary teams, identify, formulate, and solve engineering problems, understand professional and ethical responsibility, communicate effectively, understand the impact of engineering solutions in a global, economic, environmental, and societal context, recognize the need for, and an ability to engage in lifelong learning, use the techniques, skills, and modern engineering tools necessary for engineering practice.



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# Pre-Engineering Technology

## Electronics Technicians

Pre-Engineering Technology is a four-year program that affords students the opportunity to enter the workforce or continue their education at a two or four-year technical school or college. Students are prepared for entry-level employment in diverse fields associated with electronics, robotics, automation, software development, and other areas of technology. Coursework is separated into three content areas: •Electronics Engineering Technology •Computer & Software Engineering • Mechanical & Robotics Engineering. Each pathway exposes students to Engineering Design as they study the design process, engineering documentation, SOLIDWORKS 3D computer-aided design, and the fundamental concepts of engineering.

## Primary Credentials

- IPC Overview of Electronics Manufacturing Assembly
- ISCET DC Electronics Certification
- ETA
- IPC Soldering Terminals
- IPC Through Hole Solder Joint Quality Standards
- IPC Introduction to Hand Soldering
- IPC Surface Mount Solder Joint Quality Standards
- IPC Hand Soldering - SMT Component Installation

## Projected Job Outlook

Employment of solderers is projected to grow 6 percent from 2016 to 2026, about as fast as the average for all occupations.

## Salary Information

In May 2021, the median annual wage for all workers was \$63,640.

## Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Electromechanical Engineering Technologist, Industrial Engineering Technologist, Manufacturing Engineering Technologist, Critical Thinking, Communication, Creativity, Flexibility, Initiative, Electronic component recognition, Hand soldering of electronic components, Test and calibrate electronic devices using instrumentation.

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## Davies' Career and Technical Education Programs:

- Automotive Careers, Collision & Repairs
- Biomanufacturing Technology
- Education/Childcare
- Electrical & Renewable Energy
- Graphics & Interactive Media
- Health Careers
- Hospitality Careers
- Machine Technology
- Pre-Engineering Technology

## INTERESTED?

- Contact Mrs. Votto, Supervisor of Career and Technical Education at [SVotto@daviestech.org](mailto:SVotto@daviestech.org) or 401-728-1500, ex. 266

# Become a Partner

Work-based learning is an essential component of a student's career pathway, building on their classroom knowledge with practical experience in the workplace and interaction with industry and community professionals. Work-based learning allows students to apply and develop their academic, technical, and essential skills shows students the relevance of their education as it connects to the real world, and prepares them for success in college and career. Davies' Office of Workforce Development works with students and offers students the opportunity to participate in work-based learning.

In the Office of Workforce Development, we:

- Arrange business tours, job shadows, internships, and other related activities.
- Set up and process all paperwork for work-based learning.
- Recruit new employers, as needed, for work-based learning experiences.
- Maintain current partnerships with area businesses, colleges, and community organizations.
- Assist students with working papers, job search, and placements.
- Recognize business partners who participate in WBL activities at the Partners Appreciation event in May.
- Assist rising seniors/seniors with summer work-based learning.
- Collaborate with the Guidance Office to track senior graduate future plans.

