

Bellingham Technical College

# Industrial Technology



Electrician

HVAC & Refrigeration

Residential Home Inspection

Welding & Fabrication Technology

**FORGE YOUR  
OWN PATH**  
[www.btc.edu](http://www.btc.edu)



2023/24

# FORGE YOUR OWN PATH



[www.btc.edu/IndustrialTech](http://www.btc.edu/IndustrialTech)

*You know you have the potential to do more with your life. In BTC's Industrial Technology programs you can find your two-year degree in a field with high wages and the flexibility to take you anywhere you want to go.*

## **Industrial Technology**

- Electrician
- HVAC & Refrigeration
- Residential Home Inspection
- Welding & Fabrication Technology

***Hands-on capabilities and technical problem-solving skills***

### **➤ Practical & Professional**

*Your learning goes beyond the classroom, with immersive labs, high-tech equipment, internships and instructors with industry experience.*

### **➤ Built-in Community**

*BTC's Industrial Technology programs offer small classes and cohorts, so you'll build a supportive community of classmates and get plenty of one-on-one time with instructors.*

### **➤ Return on Investment**

*With strong financial support for students and shorter certificates and two-year degrees, you'll graduate with less debt ready to join the industrial workforce.*



## About Bellingham Technical College

**Bellingham Technical College** has been training students for in-demand, high-paying careers for more than 65 years. At BTC, the focus is always on our students and helping them succeed. We're proud to have one of the highest graduation rates of all public two-year colleges in Washington state, as well as high job-placement rates for our graduates.

At our vibrant campus in the heart of Bellingham, we educate a diverse population of over 3,700 students in 50 degrees, 41 certificate programs and two bachelor of applied science degrees.

***Bellingham Technical College's mission is to provide student-centered, high-quality professional technical education for today's needs and tomorrow's opportunities.***

BTC students prepare for careers in many areas, including high-demand fields such as advanced manufacturing, engineering, nursing, accounting and more.

Smaller classes mean your instructors really know you, and our lectures are reinforced in the lab, whether it is in a fast-paced kitchen, on the welding floor, or in a salmon hatchery.

**At every step, you'll know that BTC's faculty and employees are here to support you in pursuit of your professional goals.**

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*Bellingham Technical College would like to acknowledge that our service area today is within the usual and accustomed lands of the Lhaq'temish or Xwlemi (Lummi) Nation, and of the Noxws'á?aq (NookSack) Tribe of the Coast Salish peoples, as well as the original territory of the s?éməš (Samish) Indian Tribe. Our respect and gratitude go to our indigenous neighbors, whose care and protection of the land and water continues to this day.*

## BTC's Industrial Technology programs are ideal for students with

***hands-on capabilities and technical problem-solving skills***

You'll learn the expertise needed for a career in a broad range of industries, including power generation plants, refining, local and state government infrastructure, development, manufacturing, and utilities.

**The employment outlook** for workers in industrial technology is strong, and students can expect to earn excellent wages.\*

**In helping our students fulfill their potential,** we also contribute to our community's economic development. BTC's administration collaborates with local industry, employers, and our state and local governments to determine the skills our workforce requires to keep the economy strong. We develop programs based on local employer needs that will prepare our students for high-skill, high-wage jobs—right here in our community and beyond.

## BTC Degree Options

### **Associate of Applied Science (AAS) degree:**

A two-year associate degree that allows you to go directly to work in your field.

### **Associate of Applied Science-Transfer (AAS-T) degree:**

A two-year associate degree with transferable general education courses that allows you to either go directly into your field, transfer to a specific program at a four-year college or university, or prepare for your bachelor of applied science degree at BTC.

**Transitioning to BTC:** BTC accepts both traditional and non-traditional credit for equivalency to BTC courses on a case-by-case basis. Contact Admissions at [admissions@btc.edu](mailto:admissions@btc.edu) or call 360.752.8345.

Learn more: [www.btc.edu/transfers](http://www.btc.edu/transfers)

\*Wage & Employment Data Sources

**Earning potential:** Washington State Employment Security Department 2021 Occupational Employment and Wage Estimates ([esd.wa.gov](http://esd.wa.gov)) reflect 2018–21 employment; average annual wage reflects the 50th percentile, and earning potential reflects the 75th percentile of annual wages across Washington state.

Employment data come from the Washington State Board for Community and Technical Colleges and reflect WA/OR employment for students enrolled in BTC between 2017–18 and 2019–20.



# be you

*You've never shied away from a challenge, but the idea of a college degree always seemed out of reach. At BTC, you found affordable technical education to launch your career, with high wages and the flexibility to take you where you want to go. **FORGE YOUR OWN PATH. BE YOU.***



## Electrician

Associate of Applied Science Degree

Associate of Applied Science – Transfer Degree

Program Length: 5 quarters

### Electrical Construction Certificate Certificate of Completion

Program Length: 3 quarters

Choose this program to prepare for an exciting career as an electrician. Students become registered “electrician trainees” with the State of Washington Department of Labor and Industries and are awarded work experience hours upon completion. Occupational choices are extensive in the field; many graduates work in the construction industry, while others work in manufacturing or maintenance.

In BTC’s Electrician program, you will learn how to install, maintain, and repair residential, commercial, industrial and renewable electrical systems. You will also learn how to read blueprints and schematics, bend and install conduits, program VFDs and PLCs, and troubleshoot circuits.



*The average annual wage in this field is \$76,119, with an earning potential of about \$98,904 per year.\**

## HVAC & Refrigeration

Associate of Applied Science Degree

Associate of Applied Science – Transfer Degree

Program Length: 6 quarters

BTC’s Heating, Ventilation, Air Conditioning and Refrigeration program will prepare you for a career as an HVAC and Refrigeration Technician. You’ll learn new, higher-efficiency technologies and practices with the valuable hands-on training that employers are looking for.

In two years, you can be well-positioned for high-wage employment with heating and air conditioning contractors, refrigeration contractors, hotels, school systems, or industrial processing plants.



*About 87% of BTC’s HVAC & Refrigeration students are employed within nine months of graduation. The average annual wage in this field is \$60,008, with an earning potential of about \$75,296 per year.\**



# Residential Home Inspection

## Residential Home Inspection Certificate of Completion

**Program Length: 4 weeks**

If you'd like a fast-track option to a career with a home inspection company—or to your own professional home inspection business—then you should consider this course.

This intensive, full-time course combines classroom instruction with hands-on lab and inspection work to prepare you to become a licensed home inspector.

Home inspectors examine and report on a home's systems and structure—from the roof to the basement. Typically, inspectors work for real-estate purchasers, but they are also hired by firms specializing in architecture, engineering, and related services.



*The average annual wage in this field is \$75,067, with an earning potential of about \$88,982 per year.\**

# Welding & Fabricating Technology

## General Welding

**Associate of Applied Science Degree**

**Associate of Applied Science – Transfer Degree**

**Program Length: 6 quarters**

## Pipe Specialization Welding

**Associate of Applied Science Degree**

**Associate of Applied Science – Transfer Degree**

**Program Length: 7 quarters**

## Basic Welding Skills

**Certificate of Completion**

**Program Length: 3 quarters**

Any industry that creates goods and structures from metal will rely on skilled welders to create strong projects, whether in aerospace, automotive, marine, or construction fields.

In BTC's state-of-the-art welding and fabrication facility, you'll learn valuable skills that high-wage employers are looking for, from safety practices and blueprint reading, to technical welding skills for mild steel, aluminum, and stainless steel. BTC's hands-on training will prepare you for a welding career in boat manufacturing, manufacturing, refining and transportation. Students can choose between a general welding degree or specialize in pipe welding.



*About 94% of BTC Welding students are employed within nine months of graduation. The average annual wage in this field is \$66,970, with an earning potential of about \$86,396 per year.\**



Find more information:

[www.btc.edu/admissions](http://www.btc.edu/admissions)

Admissions & Funding checklist:

[www.btc.edu/admissionsteps](http://www.btc.edu/admissionsteps)

### Apply to BTC

Apply at [www.btc.edu/applyonline](http://www.btc.edu/applyonline) and get your ctcLink ID number.

### Apply for Financial Aid

File the Free Application for Federal Student Aid (FAFSA) if you are a U.S. citizen or eligible non-citizen.

<https://studentaid.gov>.

File the Washington Application for State Financial Aid (WASFA) if you are not eligible to complete the FAFSA.

<https://wsac.wa.gov/wasfa>

For other funding resources, visit:

[www.btc.edu/financialresources](http://www.btc.edu/financialresources)

### Assess Your Starting Point

Degree- and certificate-seeking students need to determine their math and English starting points.

BTC offers multiple options to determine where you start in those classes. Visit: [www.btc.edu/assessment](http://www.btc.edu/assessment)

### Meet Your Navigator & Register for Classes

Students will meet with College Navigators for a mandatory GET Started appointment: navigate Goals, create an Education plan, become Tech ready, and register for classes.

Contact Admissions & Registration to schedule your appointment: [admissions@btc.edu](mailto:admissions@btc.edu) or call **360.752.8345**.

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