Engineering

- Civil Engineering Technology
- Composites and Process Engineering
- Electronics Engineering Technology
- Geomatic Technology (Surveying & Mapping)
- Manufacturing Engineering Technology
- Mechanical Design Technology
- Pre-Engineering
Engineering at BTC

BTC's areas of study in Engineering are ideal for students with mechanical aptitude or a strong foundation in math, science, and technology. You can choose a degree program that will allow you to go to work upon graduation, or start the first two years of your bachelor's at BTC and take advantage of our smaller class sizes and lower tuition costs. Meet with one of our advisors to discover which concentration is right for you. Whichever path you choose, you’ll learn skills needed for a career in high-demand, dynamic industries like engineering, aerospace, manufacturing, precision machining, civil and commercial construction, and energy, either in the private sector or the government.

The employment outlook for these industries is very strong, and students can expect to earn excellent wages. Job opportunities in engineering abound, with an average placement rate of 90% within nine months of graduation.*

Across the state, the number of engineering graduates is well below industry needs, and employers in many fields are urgently seeking qualified engineers and engineering technicians. Our graduates are readily employable and actively recruited by local, regional, and national industries.

TRANSFER OPPORTUNITIES AT BTC

BTC's programs usually have three options for degrees depending on your education goals.

Associate of Applied Science (AAS) degree: A two-year technical degree that allows you to go directly to work in your field.

Associate of Applied Science-Transfer (AAS-T) degree: A two-year technical degree that allows you to either go directly into your field or choose to transfer to a specific program at a four-year college or university.

Associate of Science for Transfer (AS-T) or Major Ready Program (DTA): Allows students to take both General Education courses and major-specific courses in preparation for transfer with junior standing to a four-year college or university.

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 or call 360.752.8345.

Learn more: www.btc.edu/Transfers

*For details regarding BTC career wages and placement, see back pages or visit www.btc.edu/CareerServices
CIVIL ENGINEERING

- Associate of Applied Science—Transfer Degree
- Associate of Applied Science Degree

Program Length: 6 quarters

Civil engineers design, construct, operate, and maintain large construction projects, including roads, dams, bridges, airports, and buildings. This program will prepare you for a career as a civil engineering technician, computer-aided drafter, construction manager, transportation technician, or geographic information systems (GIS) technician.

You’ll learn valuable skills such as civil drawing, design, geographic information systems, and field engineering.

About 72% of BTC Civil Engineering Technology students are employed within nine months of graduation. The average annual wage in this field is $53,830, with an earning potential of about $64,074 per year.*

With an AAS degree, you can go to work in your field after graduation; or take a few additional courses to get your AAS-T degree and transfer to a four-year college to earn a bachelor’s degree.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

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COMPOSITES AND PROCESS ENGINEERING

- Associate of Applied Science —Transfer Degree

Program Length: 6 quarters

Process engineers analyze the efficiency, production quality, and safety of just about every product that comes to market, including those made from the innovative, lightweight composites that are in demand in aerospace and other high-tech industries. BTC’s new Composites and Process Engineering program will teach you in-demand skills you can put to use as an assembler, fabricator, machine operator, production worker, or supervisor in leading industries, such as aerospace and industrial manufacturing.

Building on a core academic curriculum, you’ll learn to apply basic engineering principles and technical skills to engineering support functions in research, production, and operations.

By specializing in composites and process engineering, you’ll be prepared to fill a growing need for skilled composites technicians. Plus, with transferable core classes in math, science, communications, and technical writing, you’ll be well positioned to transfer to a four-year college or university to complete your bachelor’s degree in engineering or advanced manufacturing.

The average annual wage for this field is $38,646, with an earning potential of $56,888 per year.*

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

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www.btc.edu
ELECTRONICS ENGINEERING TECHNOLOGY

- Associate of Applied Science—Transfer Degree  
**Program Length:** 6 quarters

ELECTRONICS TECHNICIAN

- Certificate of Completion  
**Program Length:** 3 quarters

If you're interested in designing, operating and repairing the electronics that help the world run smoothly, then choose BTC's Electronics Engineering Technology program to prepare for an exciting career as an electronics engineer or technician. Electronics technicians are in high demand as engineering assistants, field service technicians, electronic equipment technicians, service technicians, and broadcast technicians.

At BTC, you’ll learn the latest electronics processes and systems, such as instrumentation, industrial electronics, NANO/Micro Systems, robotics, lasers, automated equipment, fiber optics, and wireless communications. You can put your valuable skills to work in manufacturing companies, processing plants, computer service firms, telephone and wireless communications companies, or in the biomedical equipment field.

The average annual wage in this field is $61,925, with an earning potential of about $72,342 per year.*

With your AAS-T degree, you can choose to go to work after graduating from BTC or transfer to a four-year college to earn a bachelor’s degree.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

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GEOMATIC TECHNOLOGY (SURVEYING & MAPPING)

- Associate of Applied Science—Transfer Degree  
- Associate of Applied Science Degree  
**Program Length:** 6 quarters

If you’d like to prepare for a career in a growing field that will allow you to use advanced technology and won’t confine you to an office, then choose our Geomatic Technology program. You can put your math and computer skills to work as a geomatic technician doing surveying, mapping and more for construction firms, surveying and engineering firms, mining companies, oil and gas companies, and public utilities. Or go to work for a government agency, such as U.S. Geological Survey, Department of Natural Resources, the Bureau of Land Management, or the U.S. Forestry Service.

BTC's courses will give you an understanding of boundary laws, zoning, permitting, and platting, with in-depth experience using the expanding technology of global positioning and geographic information systems.

About 84% of BTC Geomatic Technology students are employed within nine months of graduation. The average annual income in this field is $61,398, with an earning potential of about $72,457 per year.*

With an AAS degree, you can go to work in your field after graduation; or take a few additional courses to get your AAS-T degree and transfer to a four-year college to earn a bachelor’s degree.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

*For details regarding BTC career wages and placement, see back pages or visit www.btc.edu/CareerServices
MANUFACTURING ENGINEERING TECHNOLOGY

- Associate of Applied Science—Transfer Degree
- Associate of Applied Science Degree
- Program Length: 6 quarters

Manufacturing engineers are involved in the entire scope of the manufacturing process, designing and running the systems that turn ideas and parts into products. If you’re mechanically inclined, good at math, or interested in how the products we use every day are designed and developed, then this could be the program for you. Qualified manufacturing engineers are in high demand with manufacturers and fabicators in a variety of fields.

In BTC’s program, you’ll study academic coursework in English, chemistry, physics, technology, and mathematics. You’ll also get hands-on education and develop the communication skills you’ll need to succeed on engineering and development teams in a variety of industries with your AAS-T degree. Once you complete BTC’s 91-credit program, you have the option to transfer to a four-year college or university to complete your bachelor’s degree in manufacturing engineering technology.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

MECHANICAL ENGINEERING DESIGN

- Associate of Applied Science—Transfer Degree
- Associate of Applied Science Degree
- Program Length: 6 quarters

MECHANICAL ENGINEERING DRAFTING
Certificate of Completion
Program Length: 3 quarters

Mechanical engineers design, build and analyze everything from cars and planes to robots and medical devices, even entire manufacturing plants. BTC’s program will prepare you for design and engineering work at structural engineering companies, aerospace companies, architectural firms, refineries, construction companies, or manufacturing firms.

Learn drawing and design skills to use as a mechanical engineering technician, mechanical drafter, computer-aided drafter, engineering technician, or production planner.

The average annual wage in this field is $71,937, with an earning potential of about $86,757 per year.*

With an AAS degree, you can go to work in your field after graduation; or take a few additional courses to get your AAS-T degree and transfer to a four-year college to earn a bachelor’s degree.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

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*For details regarding BTC career wages and placement, see back pages or visit www.btc.edu/CareerServices
PRE-ENGINEERING PATHWAYS

Program Length: 6 quarters

Students can customize their degree to focus on: Mechanical Engineering, Manufacturing Engineering, Electrical Engineering, or Engineering Technology.

These direct transfer degrees are designed for students planning to major in Engineering or Engineering Technology at a Washington State four-year college or university. Upon completion, students may transfer as a junior into four-year engineering or engineering technology programs. In each of BTC’s programs, you’ll study academic coursework in English, chemistry, physics, technology, and mathematics. You’ll also develop the communication skills you’ll need to succeed on engineering and development teams in a variety of industries. Each pathway also will include specific coursework related to your chosen field.

For program entry points please visit our Program pages under Degrees & Classes on our website: www.btc.edu

Getting Started is Easy!

1. **Apply to BTC & Apply for Financial Aid**
   - Complete the free online application at [www.btc.edu/ApplyOnline](http://www.btc.edu/ApplyOnline)
   - You’ll be emailed a Student Identification Number (SID), a college-assigned number specific to you.
   - To apply for financial aid, complete the Free Application for Federal Student Aid (FAFSA) online. Use BTC college code 016227. Learn more at [www.btc.edu/FinancialAid](http://www.btc.edu/FinancialAid)
   - See if you are eligible for support through Workforce Funding: [www.btc.edu/WorkforceFunding](http://www.btc.edu/WorkforceFunding)
   - Apply for the $500 New Student Admissions Scholarship!

2. **Assess your Starting Point**
   - Degree- or certificate-seeking students need to determine their math and English starting points. Placement may be determined using previous college transcripts, placement tests you have already taken, or by taking the Accuplacer test.
   - Need to test? We recommend you refresh and review your skills before you test. Go to [www.btc.edu/Assessment](http://www.btc.edu/Assessment) for helpful study guides and the drop-in testing schedule and payment options.
   - A $25 testing fee is required for the Accuplacer test.

3. **Advising & Registration**
   - It is required that new students attend an advising and registration session, where you will learn about important campus resources and register for courses.
   - You will schedule your session online (you will receive email instructions) OR contact Admissions at 360.752.8345

4. **Prepare to Attend**
   - Pay: Tuition and fees must be paid and funded by the published payment deadlines. Payment can be made at the cashier in College Services 110, or online at [www.btc.edu/Pay](http://www.btc.edu/Pay)
   - Attend New Student Orientation Kick-Off: New students are required to attend the New Student Orientation Kick-off the day before the quarter begins. The three-hour event is for students to make connections, learn about resources, meet faculty, take a tour of the program areas, and attend an optional Computer Boot Camp. Sign-up online at [www.btc.edu/Events](http://www.btc.edu/Events)

*Employment and Wage Data Sources
BTC graduate employment rates: Career Bridge (careerbridge.wa.gov), June 2012; reflects 2006–2009 program graduates
BTC Mission

Bellingham Technical College provides student-centered, high-quality professional technical education for today's needs and tomorrow's opportunities.

BTC Vision

Bellingham Technical College will be a recognized leader in providing innovative and effective technical education, maximizing student potential and supporting the regional economy through development of a competitive workforce.