



The Manufacturing Technology programs prepare students to meet the technology needs facing Utah's manufacturing and service industries such as machining, welding, and sheet metal fabrication. Machining students are prepared to create parts on lathes, mills, drill presses, surface grinders and Computer Numerical Controlled (CNC) machines. Electronic and biomedical equipment technicians learn electronic control systems and test instrumentation.

GEORGE PIKE

WELDING

The tech college gave me the skills, knowledge and confidence to begin a totally new career. Wayne Western worked with me until things clicked. Within three weeks of learning TIG welding, I had a new job.

Tech College Graduate,
Aerospace TIG Welder
Williams International

FAST

- » Most programs take less than a year to finish.
- » Self-paced programs allow you to move through classes quickly.

AFFORDABLE

- » High school students attend tuition-free.
- » Save thousands! Tuition costs only \$1.55 per class hour, plus monthly fees.
- » Many scholarships and financial aid options are available.

FOCUSED

- » We won't teach you what you already know.
- » You won't spend time on classes you don't need.
- » Every class offers current, job-ready experience.

RESPECTED

- » 68% of jobs in Utah require the kind of technical training provided at the tech college.
- » Employers drive training and education through curriculum development, equipment donations, and hiring graduates.
- » We offer certificates, degrees and licensure training.
- » We are fully accredited by the Council on Occupational Education.

The Ogden-Weber Applied Technology College is accredited by the Commission of the Council on Occupational Education.

Council on Occupational Education
7840 Roswell Road, Suite 325
Atlanta, GA 30350
770-396-3898

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ENROLL NOW!

Visit www.owatc.edu
or call 801-627-8300

Main Campus

200 North Washington Blvd., Ogden | 801-627-8300

Business Depot Ogden (BDO) Campus

918 West 2nd Street Bldg 10A | 801-612-4161

Roy Campus

1843 West 4000 South, Roy (across from Iomega) | 801-612-4100



OGDEN-WEBER
TECH COLLEGE

Program Overview 11-12

BIOMEDICAL EQUIPMENT TECHNICIAN

This program prepares students to evaluate, inspect, maintain, repair, and install sophisticated biomedical equipment and instruments such as heart-lung machines, kidney dialysis machines, infusion pumps, respirators, lab equipment, and other devices used for medical diagnosis, monitoring, and treatment.

COMPOSITES

This program focuses on learning composite basics and lay-up techniques in a hands-on environment. Areas of focus are developing lay-up skills, vacuum bagging, out-of-autoclave curing, repair, materials cutting, laser placement, reverse engineering, non-destructive testing, injection molding, and ultraviolet curing. Students will be working with fiberglass, carbon fiber, and aramid (kevlar). Students are provided with clear training to enter the aerospace, aviation, outdoor product, or other industries using advanced composite materials.

ELECTRONICS

This program prepares students to use electronic test instrumentation such as digital multimeters to troubleshoot and repair/replace circuits, circuit boards, motors, and control devices. Electronic fundamentals, soldering and assembly, semiconductors, programming languages, and maintenance are also included.

INDUSTRIAL AUTOMATION MAINTENANCE

This program prepares students to troubleshoot, repair, and maintain electronic automated manufacturing assembly line systems, including electro-mechanical control and robotic systems, programmable logic controls, belt and chain drives, and hydraulic and pneumatic conveyor systems.

MACHINIST I

You will be setting up and operating a variety of computer numerically controlled (CNC) machines, including lathes, turning centers, and machining centers; involving positioning work pieces, using a wide variety of cutting tools, and working with computers to machine precision work pieces.

MACHINIST II

You will set up and operate metal cutting machine tools. This includes milling machines, surface grinders, and setup and manufacture parts using CAD/CAM software. You will be positioning work pieces and using many types of cutting tools and measurement tools to machine student projects representing precision components used in the aerospace, automotive and consumer industries.

MACHINIST III

You will be setting up and operating a variety of machines, including, lathes, mills, surface grinders, CNC turning centers, and CNC machining centers; involving positioning work pieces and fixturing, using a wide variety of cutting tools, and working with computer CAD/CAM programs to machine precision work pieces representing components used in consumer industries.

MACHINIST APPRENTICE

As a Machinist Apprentice, you may work for a manufacturing firm or machine shop. Your primary task will be to produce metal parts for industrial machinery, automobiles, aircraft, and other consumer goods. You will use lathes, grinders, mills, drilling presses, and computer numerical controlled machines (CNC). You will interpret blueprints and other specifications to select correct materials, tools, and fabrication processes. An AAS degree is also available in partnership with WSU.

MAINTENANCE MECHANIC APPRENTICE

This program prepares students to maintain and repair a variety of machines and mechanical systems. Students also learn to diagnose mechanical, pneumatic, hydraulic, and electrical problems, work with mathematics, and read blueprints. This program includes welding, electronics, and computers.

SHEET METAL FABRICATOR

This program prepares students to construct sheet metal products to varying tolerances, following technical drawings, blueprints, and customer specifications using geometric dimensioning and tolerancing; using manual, power, and computer controlled manufacturing equipment for air conditioning duct systems, dust recovery/blowpipe systems, and architectural structures in residential and commercial buildings.

SHEET METAL WORKER APPRENTICE

This program prepares students to fabricate, install, and repair products made of sheet metal. Reading blueprints, selecting materials, measuring and cutting metal, and assembling and installing products using fasteners, rivets, and welding techniques are also included. An AAS degree is also available in partnership with WSU.

SHEET METAL WORKER APPRENTICE (JATC)

JATC Sheet Metal Apprentices work for an employer affiliated with Sheet Metal Local #312. Fabricating, installing, and repairing sheet metal products, reading blueprints, selecting materials, measuring, cutting, assembling, and installing products using fasteners and welding techniques are also taught. An AAS degree is also available in partnership with WSU.

WELDING – PRODUCTION

This program prepares students for entry-level welding positions as defined by local employers and the American Welding Society. Students who complete this certificate have the skills to work as an entry-level welder and/or continue training towards the completion of the Welding Advanced Certificate while employed.

WELDING – ADVANCED

This program prepares students in a variety of advanced welding processes and techniques to build products in a production environment within manufacturing facilities and/or specialty shops. Students follow blueprints and customer specifications.

Program	Est. Cost ¹	Hours ²	Avg. Time ¹	Avg. Wage ³	Campus	Days	Evenings
Biomedical Equipment Technician	\$3,727	1,360	11 months	\$56,290	Main	Mon - Th	-
Composites	\$2,571	610	5 months	\$39,060	Main	Mon - Fri	Tu - Th
Electronics	\$3,725	1,260	10.5 months	\$27,240	Main	Mon - Fri	Tu - Th
Industrial Automation Maintenance	\$4,383	1,260	10.5 months	\$53,120	Main	Mon - Fri	Tu - Th
Machinist I	\$3,284	900	7.5 months	\$27,270	Main	Mon - Fri	Tu - Th
Machinist II	\$2,361	1,200	10 mos.	\$37,890	Main	Mon - Fri	Tu - Th
Machinist III	\$3,054	1,575	13 mos.	\$41,480	Main	Mon - Fri	Tu - Th
Machinist Apprentice	\$1,864	720	4 yrs.	\$37,890	Main	Mon - Fri	Tu - Th
Maintenance Mechanic Apprentice	\$1,949	810	4 yrs.	\$37,090	Main	Mon - Fri	Tu - Th
Sheet Metal Fabricator	\$2,207	900	8 mos.	\$30,190	Main	Mon - Fri	Tu & Th
Sheet Metal Worker Apprentice	\$2,912	720	4 yrs.	\$49,350	Main	Mon - Fri	Tu & Th
Sheet Metal Worker Apprentice (JATC)	\$3,072	928	5 yrs.	\$49,350	JATC	*	*
Welding – Production	\$2,241	780	6 mos.	\$29,560	Main	Mon - Fri	Tu - Th
Welding – Advanced	\$3,368	1,410	12 mos.	\$34,600	Main	Mon - Fri	Tu - Th

Standard class hours: Mon - Fri, Day: 8:00 a.m. - 3:00 p.m. and/or Mon - Thur, Evening: 5:00 p.m. - 9:00 p.m.

1 – Estimated cost and average time to complete is based on full-time attendance (30 hours/week)

2 – Hours represent an estimated time students are in class

3 – Data based on overall average wage of entry and experienced employees. Information was collected from DWS and salary.com (Weber County) websites.

* – Call Utah Sheet Metal JATC at 801-972-2480 or visit www.utahsheetmetal.com