

WHY WORK IN UTILITIES?

The Utilities industry plays an integral role in the Houston region by powering our factories, commercial establishments and homes.

550,000 WORKERS

****IN THE U.S.





A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You want to help provide the tools that MAKE EVERYDAY LIFE POSSIBLE.
- ✓ You enjoy HANDS-ON work and are GOAL ORIENTED.
- ✓ You are an **EFFECTIVE COMMUNICATOR** and an **ACTIVE LISTENER**.
- ✓ You are a DECISION MAKER and have excellent JUDGEMENT.
- ✓ You are **DEPENDABLE**, **ADAPTABLE**, and **FLEXIBLE**.



CAREERS IN UTILITIES INCLUDE...

INDUSTRIAL MACHINERY MECHANICS

Average Annual Salary: \$55,000 \$14-\$43/hour



Repair, install, or maintain industrial production machinery or refinery and pipeline distribution systems. Responsible for general building repairs and ensuring that everything works.



ELECTRICIAN

Average Annual Salary: \$48,000 \$13-\$35/hour

Two-Year Degree or Apprenticeship

Install, test, and repair electrical equipment. Apply electrical theory and related knowledge to design, build, repair, calibrate and modify electrical components, circuitry, controls and machinery.



ELECTRICAL & ELECTRONICS ENGINEERING TECHNICIANS

Average Annual Salary: \$65,000 \$16-\$35/hour

Two-Year Degree

Apply electrical and electronic theory and related knowledge, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for evaluation and use in decision making.



POWER PLANT OPERATOR

Average Annual Salary: \$55,000 \$14-\$43/hour Certificate or On-the-Job Training



Control power plants and the flow of electricity from plants to substations. Distribute power among generators and regulate the output of several generators. Monitor instruments to meet varied consumer demand.

PLUMBER/PIPEFITTER

Average Annual Salary: \$52,000 \$17-\$33/hour

Two-Year Degree or Apprenticeship



Layout, assemble, install, and repair pipelines or systems that carry water, steam, air, or other liquids or gases for industrial systems. They apply pipe system knowledge and read blueprints understand how the whole system works together.

ELECTRICAL POWER-LINE INSTALLER & REPAIRER

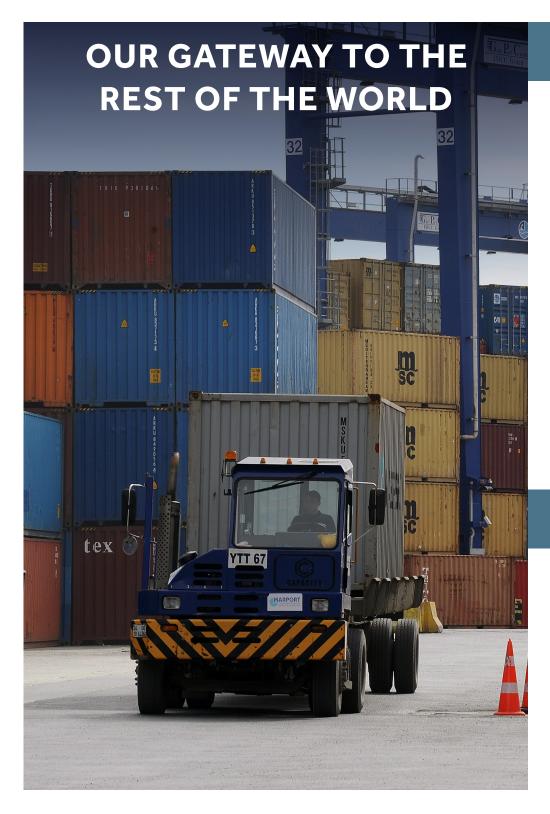
Average Annual Salary: \$58,000 \$15-\$41/hour

Certificate or On-the-Job Training

Install or repair cables or wires used in electrical power or distribution systems. May also erect poles and transmission towers.







WHY WORK IN PORT AND MARITIME?



Houston waterways and ports contribute nearly 200,000 jobs to Texas



OF THE CURRENT WORKFORCE
IS **EXPECTED TO RETIRE** IN THE
NEXT DECADE

The Port of Houston is the



export hub in the nation and one of the busiest ports in the world

#2 IN THE U.S.FOR MARITIME JOBS

Skilled professionals are in **HIGH DEMAND**

A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You like the idea of an INTERNATIONAL WORK LIFE that REVOLVES AROUND THE OCEANS.
- ✓ You enjoy HANDS-ON work and are GOAL-ORIENTED.
- ✓ You are an EFFECTIVE COMMUNICATOR and an ACTIVE LISTENER.
- You are a **DECISION MAKER** and have excellent **JUDGEMENT**.
- ✓ You are **DEPENDABLE**, **ADAPTABLE**, and **FLEXIBLE**.



CAREERS IN PORT AND MARITIME INCLUDE...

INDUSTRIAL MACHINERY MECHANIC

Average Annual Salary: \$51,000 \$14-\$43/hour

Two-Year Degree or Certificate

Install, adjust, or maintain industrial machinery or refinery distribution systems. Responsible for general building repairs and ensuring that everything works. Keep track of machine safety and efficiency.



DIESEL ENGINE SPECIALIST

Average Annual Salary: \$46,000 \$15-\$35/hour

Two-Year Degree or Certification

Repair and maintain diesel engines that power transportation equipment at the Port and in companies that support it. Work on heavy vehicles, including trucks, bulldozers, cranes and forklifts.

PLUMBER/PIPEFITTER

Average Annual Salary: \$49,000 \$15-\$36/hour

Two-Year Degree or Certificate

Layout, assemble, install, and repair pipelines or pipe systems that carry water, steam, air or other liquids or gases for industrial systems. Study blueprints and apply knowledge of specific pipe systems to better understand how the system works together.



CRANE & TOWER OPERATOR

Average Annual Salary: \$56,000 \$17-\$40/hour Certificate or On-the-Job Training



Load and unload containers on and off ships. Extend and retract horizontally mounted booms and lower and raise hooks attached to load lines.

WFI DFR

Average Annual Salary: \$43,000

\$15-\$36/hour

Two-Year Degree or Technical Certificate

Use specialized equipment to join metal components. Cut metal to follow blueprints for pipe or structural steel systems. The skill level varies among different types of welding.



\$12-\$22/hour

Apprenticeship, Certification or

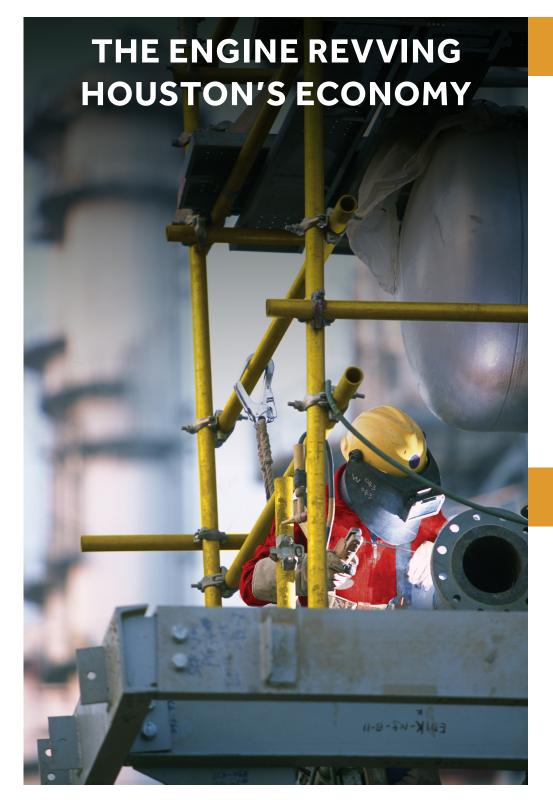
On-the-Job Training

Keep machines, mechanical equipment, buildings, and roads at port facilities in good repair by performing routine checks. May work alongside and assist machinery mechanics.









WHY WORK IN PETROCHEM?







Petrochemical companies in Houston are investing \$60 Billion in facility expansions

Nearly **12,000 annual openings** for skilled positions over the next five years

A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You want to IMPROVE THE PRODUCTS that make everyday life possible.
- ✓ You are a PROBLEM SOLVER and COMFORTABLE WITH CHANGE.
- ✓ You like being PRECISE and are GOOD WITH DETAILS.
- ✓ You are RELIABLE and very SAFETY CONSCIOUS.
- ✓ You have good COMMUNICATION SKILLS and work well as PART OF A TEAM.



CAREERS IN PETROCHEM INCLUDE...

INDUSTRIAL MACHINERY MECHANIC

Average Annual Salary: \$51,000 \$15-\$43/hour

Two-Year Degree or Certification

Repair, install, or maintain industrial production machinery or refinery and pipeline distribution systems. Responsible for general building repairs and ensuring that everything works.



PIPEFITTER

Average Annual Salary: \$52,000 \$20-\$30/hour

Two-Year Degree or Technical Certificate

Layout, assemble, install, and repair pipelines that carry liquids or gases for industrial production. Study blueprints and apply knowledge of specific pipe systems to better understand how a whole system works together.



Average Annual Salary: \$43,000 \$15-\$36/hour

Two-Year Degree or Certification

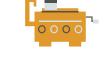
Use specialized equipment to join metal components. Cut metal to follow blueprints for pipe or structural steel systems. The skill level varies among different types of welding.



PROCESS TECHNICIAN

Average Annual Salary: \$67,000 \$16-\$48/hour

Two-Year Degree



Ensure that plants are producing high-quality products by monitoring the refining process for fuels, chemicals, and plastics. Responsible for collecting samples of products for laboratory testing and safely operating control room instrumentation systems. Make changes to the operating process as needed to ensure quality.

QUALITY ASSURANCE LABORATORY TECHNICIAN

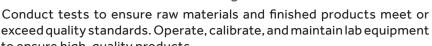
Average Annual Salary: \$43,000

\$19-\$40/hour

Certificate or On-the-Job Training

exceed quality standards. Operate, calibrate, and maintain lab equipment to ensure high-quality products.





INSTRUMENTATION TECHNICIAN

Average Annual Salary: \$60,000

\$15-\$50/hour

Two-Year Degree or Technical Certificate



Work with a wide variety of devices to control pressure, flow, temperature, force, and chemical make-up. Inspect instruments and diagnose problems. Additionally, install and maintain plant equipment.





WHY WORK IN OIL AND GAS?



More than 1 our of 4 U.S. JOBS IN OIL AND GAS EXTRACTION RESIDE IN HOUSTON ★

Skilled professionals are in **HIGH DEMAND**



EMPLOYED MORE THAN **250,000 WORKERS** IN THE GREATER HOUSTON REGION IN 2016.

A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You are looking for a DIVERSE ENVIRONMENT and lots of TRAINING AND DEVELOPMENT OPPORTUNITIES.
- ✓ You are a QUICK LEARNER and TAKE INITIATIVE.
- ✓ You are FLEXIBLE and have a STRONG WORK ETHIC.
- ✓ You have EFFECTIVE COMMUNICATION SKILLS and work well as PART OF A TEAM.
- ✓ You have strong **TECHNICAL AND COMPUTER SKILLS**.



CAREERS IN OIL AND GAS INCLUDE...

GEOLOGICAL AND PETROLEUM TECHNICIAN

Average Annual Salary: \$68,000 \$20-\$30/hour

Two-Year Degree and On-the-Job Training

Support scientists and engineers exploring and extracting natural resources, such as minerals, oil, and natural gas. Analyze samples of soil and minerals to locate valuable resources.



TECHNICIAN

Average Annual Salary: \$60,000 \$16-\$52/hour

ELECTRICAL ENGINEERING

Two-Year Degree

Assist in designing and developing electrical and electronic equipment. Use measuring and diagnostic devices to adjust, test, and repair equipment. Manufacture and deploy equipment for automation.



INDUSTRIAL MACHINERY MECHANIC

Average Annual Salary: \$51,000 \$15-\$43/hour

Certificate or On-the-Job Training

Perform preventive maintenance, detect breakdown conditions before they happen, make machinery adjustments, and repair broken equipment.



MECHANICAL ENGINEERING TECHNICIANS

Average Annual Salary: \$59,000 \$15-74\$/hour

Two-Year Degree

Modify, develop, test, or calibrate machinery and equipment for use in the

extraction of oil and natural gas. Set up machinery and instrumentation.



PETROLEUM PUMP SYSTEM OPERATOR

Average Annual Salary: \$68,000

\$18-\$45/hour

Certificate or On-the-Job Training



Oversee petroleum refinement, which is the primary function of Houston's oil and gas sector. May specialize in controlling pumping systems, gauging oil in storage tanks, and regulating oil flow into pipelines.

QUALITY CONTROL INSPECTOR

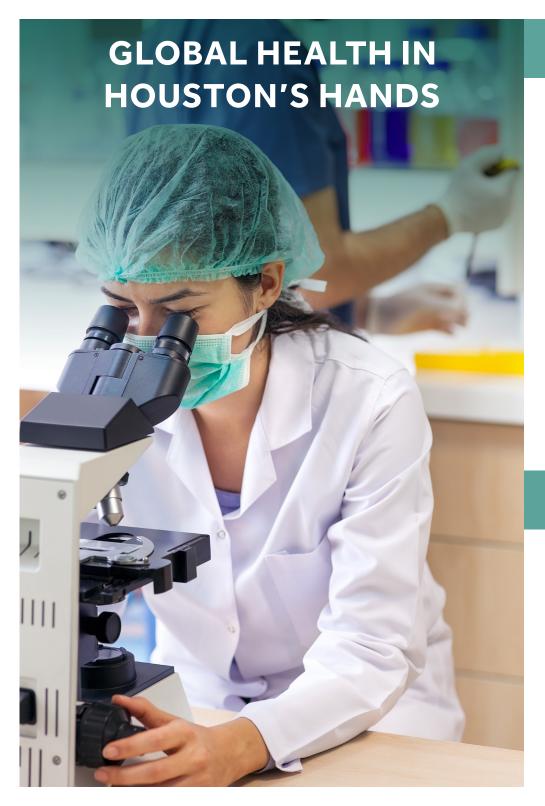
Average Annual Salary: \$43,000

10\$-40\$/hour

On-the-Job Training

Monitor quality standards for extracted oil and natural gas. Test, sort, sample, or weigh raw materials to ensure quality consistent with specifications and free from defects and deviations from specifications.





WHY WORK IN HEALTH CARE?

Houston is home to the largest medical complex in the world



1 OUT OF 8

JOBS

IN THE REGION IS
IN HEALTH CARE.





A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You want to help IMPROVE THE LIVES OF MILLIONS.
- ✓ You are DETAIL-ORIENTED and SELF-CONFIDENT.
- ✓ You have a POSITIVE MENTAL ATTITUDE and are COMFORTABLE DEALING WITH PRESSURE.
- ✓ You are RELIABLE and have a STRONG WORK ETHIC.
- ✓ You have EFFECTIVE COMMUNICATION SKILLS and can EMPATHIZE in difficult situations.



CAREERS IN HEALTHCARE INCLUDE...

DIAGNOSTIC MEDICAL SONOGRAPHER

Average Annual Salary: \$71,000 \$26-\$86/hour Two-Year Degree



Operate special imaging equipment to create images or conduct tests that help physicians assess medical conditions. Assist during surgical procedures.

MEDICAL RECORDS AND HEALTH **INFORMATION TECHNICIAN**

Average Annual Salary: \$38,000 \$11-\$33/hour

Two-Year Degree

Organize and manage health information while ensuring the quality, accuracy, accessibility, and security of the data in both paper and electronic files. Code and categorize patient information for insurance reimbursement purposes, registries, and patient histories.

MEDICAL AND CLINICAL LABORATORY TECHNICIAN

Average Annual Salary: \$38,000

\$13-\$28/hour

Two-Year Degree

Conduct complex laboratory testing for early diagnosis, treatment, and prevention of disease. Collect samples and perform tests to analyze body fluids, tissue, and other substances.



RADIOLOGICAL TECHNOLOGIST

Average Annual Salary: \$57,000

\$20-\$37/hour

Two-Year Degree

Perform tests using several kinds of medical technology. Take x-rays and carry out studies with computerized scanners. Administer non-radioactive materials to patients for diagnostic purposes.



Average Annual Salary: \$47,000

\$16-\$31/hour

Two-Year Degree

Prepare patients for surgery and set up surgical equipment in the operating room. Prepare solutions and medications used in surgery. Assist the surgical team as needed.





Average Annual Salary: \$47,000

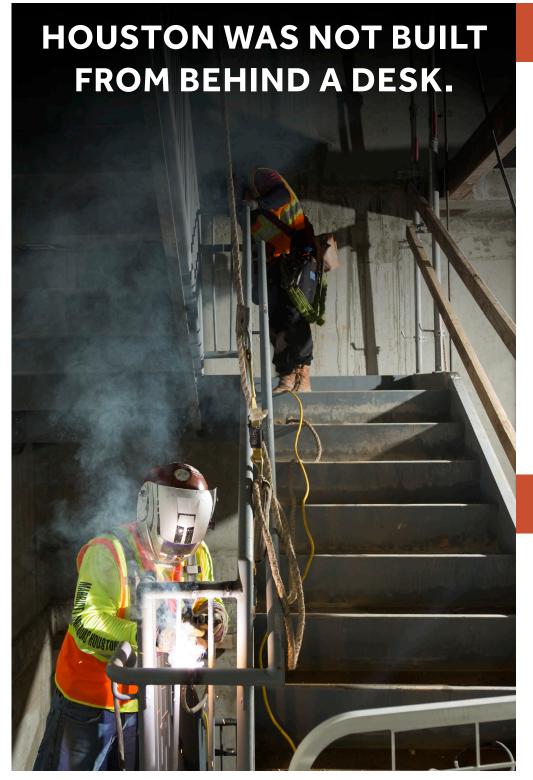
\$19-\$35/hour

Certificate and License

Provide basic medical care to patients under the supervision of a registered nurse. Monitor patients' health, administer basic care, and provide comfort.







WHY WORK IN CONSTRUCTION?

\$\$\$\$\$\$ \$\$\$\$\$\$ \$\$\$\$\$\$ More than \$90 billion in construction contracts were awarded in Houston in the past 5 years.



OF THE NATIONAL WORKFORCE

EXPECTED TO RETIRE IN THE NEXT

DECADE

Construction
Employed 1 out of
every 13 workers
in the region in 2015.



OVER 43,000
NEW JOBS IN
CONSTRUCTION WILL
BE CREATED ACROSS
HOUSTON IN THE
NEXT 7 YEARS

A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You take PRIDE IN YOUR WORK and want to leave a LEGACY.
- ✓ You LIKE STAYING ACTIVE and WORKING WITH YOUR HANDS.
- ✓ You are a PROBLEM SOLVER and adapt well to NEW CHALLENGES.
- ✓ You are PRECISE and have an EYE FOR DETAIL.
- You have **GREAT COMMUNICATION SKILLS** and function well as part of a team.



CAREERS IN CONSTRUCTION INCLUDE...

WELDER

Average Annual Salary: \$43,000 \$15-\$36/hour

Two-Year Degree or Technical Certificate

Specialize in joining metal materials using high heat. Work on projects varying from skyscrapers to submarines. May create and help erect frames for large buildings and bridges.



CARPENTER

Average Annual Salary: \$35,000 \$13-\$29/hour

Apprenticeship or On-the-Job Training

Cut, shape, and install materials to construct and maintain office buildings, factories, and other structures. Install framing, drywall, insulation, flooring, roofing, cabinetry, interior trim work, formwork, and bracing.

PIPEFITTER

Average Annual Salary: \$49,000 \$15-\$36/hour

Two-Year Degree or Technical Certificate

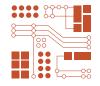
Layout, assemble, install, and repair pipelines that carry liquids or gases for building or industrial production. Study blueprints and apply knowledge of specific pipe systems to better understand how a whole system works together.



ELECTRICIAN

Average Annual Salary: \$46,000 \$15-\$36/hour

Two-Year Degree or Apprenticeship



Install, operate, maintain, and repair electrical wiring and control systems in homes, commercial businesses, and industrial plants. Install lighting, conduct electrical inspections, and repair generators and electronic controllers.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) TECHNICIAN

Average Annual Salary: \$45,000

\$14-\$33/hour

Two-Year Degree or Apprenticeship

Work with electrical and mechanical components to install, maintain, and repair HVAC systems. May specialize in areas such as climate control, air quality and transfer, or commercial refrigeration.

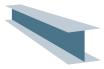
IRON WORKER

Average Annual Salary: \$39,000

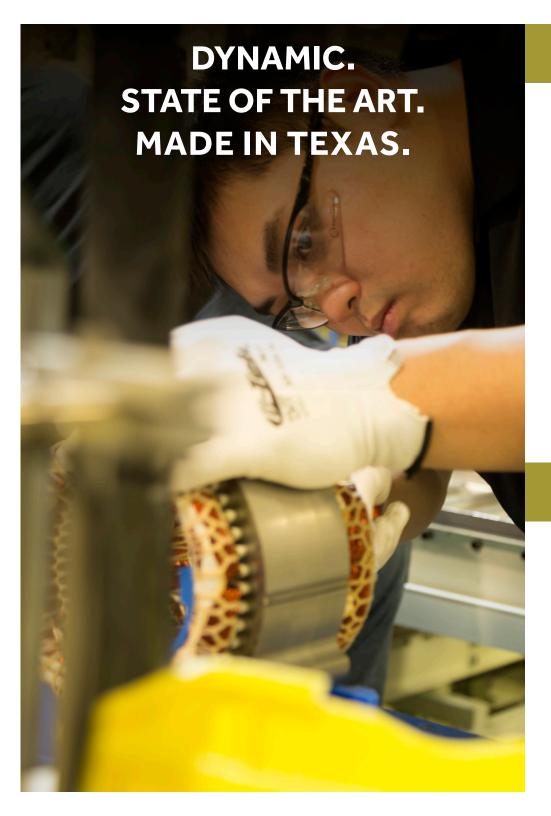
\$14-\$28/hour

Apprenticeship or On-the-Job Training

Erect structures and frameworks made of steel and iron. Join support beams, steel girders, columns, and other structural materials. Work in teams to build bridges, commercial buildings, and industrial facilities.







WHY WORK IN ADVANCED MANUFACTURING?



HOUSTON IS A **GLOBAL MANUFACTURING HUB**; PRODUCING MEDICAL DEVICES, COMPUTERS, MACHINERY, AND EVEN ROBOTS!

SKILLED PROFESSIONALS ARE IN HIGH DEMAND

HOME TO APPROXIMATELY

6,300
MANUFACTURING

FACILITIES

ONE OF THE LARGEST INDUSTRIAL EMPLOYERS
IN THE NATION WITH 200,000
SKILLED WORKERS

A rewarding career in one of Houston's thriving industries could be yours in just two years.

- ✓ You want to make some of the MOST INNOVATIVE and TECHNOLOGICALLY COMPLEX PRODUCTS in the world.
- ✓ You are DETAIL ORIENTED and a PROBLEM SOLVER.
- ✓ You are HANDY and have MECHANICAL AND TECHNICAL ABILITIES.
- ✓ You are RELIABLE and willing to take on MULTIPLE TASKS.
- ✓ You have EFFECTIVE COMMUNICATION SKILLS and work well as PART OF A TEAM.



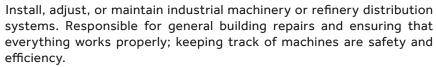
CAREERS IN ADVANCED MANUFACTURING INCLUDE...

INDUSTRIAL MACHINERY MECHANIC

Average Annual Salary: \$51,000 \$14-\$43/hour

Two-Year Degree/ Apprenticeship/

On-the-Job Training





Average Annual Salary: \$43,000 \$19-\$40/hour

Technical Certificate or On-the-Job Training

Monitor quality standards for manufactured products. Inspect, test, sort, sample, or weigh raw materials or assembled products to ensure quality consistent with specifications, and free from defects and wear.



MACHINIST

Average Annual Salary: \$41,000 \$14-\$31/hour

Two-Year Degree

Set up and operate machine tools to that produce precision parts and instruments used in manufacturing. Fabricate, modify, or repair mechanical instruments or maintain industrial machines.



Average Annual Salary: \$60,000

\$16-\$52/hour

Two-Year Degree



Assist in designing and developing electrical and electronic equipment. Use measuring and diagnostic devices to adjust, test, and repair equipment. Manufacture and deploy equipment for automation.

CNC MACHINE TOOL PROGRAMMER

Average Annual Salary: \$64,000 \$16-\$40/hour

Two-Year Degree

Develop programs to control the manufacturing of metal or plastic parts by automatic machine tools, equipment, or systems.



WELDER

Average Annual Salary: \$43,000

\$15-\$36/hour

Two-Year Degree or Technical Certificate

Use specialized equipment to join metal components or to fill holes, indentations, or seams of fabricated metal products. Cut metal, based on blueprints, to construct new pipe or structural steel systems.





