MAKE A POWER MOVE

WHY WORK IN UTILITIES?

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

EMPLOYED NEARLY 550,000 WORKERS IN THE U.S. Driver of future GREEN TECHNOLOGY

20,000 WORKERS IN THE HOUSTON REGION

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

WHAT ARE YOU UP FOR?

✓ 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.

MAKE EVERYDAY LIFE POSSIBLE
<table>
<thead>
<tr>
<th>CAREERS IN UTILITIES INCLUDE...</th>
<th></th>
</tr>
</thead>
</table>
| **INDUSTRIAL MACHINERY MECHANICS** | Average Annual Salary: $55,000  
$14-$43/hour  
Two-Year Degree or Certificate |
| Description | Repair, install, or maintain industrial production machinery or refinery and pipeline distribution systems. Responsible for general building repairs and ensuring that everything works. |
| **POWER PLANT OPERATOR** | Average Annual Salary: $55,000  
$14-$43/hour  
Certificate or On-the-Job Training |
| Description | 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. |
| **ELECTRICIAN** | Average Annual Salary: $48,000  
$13-$35/hour  
Two-Year Degree or Apprenticeship |
| Description | 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. |
| **PLUMBER/PIPEFITTER** | Average Annual Salary: $52,000  
$17-$33/hour  
Two-Year Degree or Apprenticeship |
| Description | 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 & ELECTRONICS ENGINEERING TECHNICIANS** | Average Annual Salary: $65,000  
$16-$35/hour  
Two-Year Degree |
| Description | 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. |
| **ELECTRICAL POWER-LINE INSTALLER & REPAIRER** | Average Annual Salary: $58,000  
$15-$41/hour  
Certificate or On-the-Job Training |
| Description | Install or repair cables or wires used in electrical power or distribution systems. May also erect poles and transmission towers. |

Sources: Bureau of Labor Statistics, Electricity Advisory Committee

*UPSKILLHOUStON.org*
WHAT ARE YOU UP FOR?

✓ 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.

WHY WORK IN PORT AND MARITIME?

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

29% OF THE CURRENT WORKFORCE IS EXPECTED TO RETIRE IN THE NEXT DECADE

The Port of Houston is the #1 export hub in the nation and one of the busiest ports in the world

HOUSTON RANKS #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.

OUR GATEWAY TO THE REST OF THE WORLD

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

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### CAREERS IN PORT AND MARITIME INCLUDE...

<table>
<thead>
<tr>
<th>Role</th>
<th>Average Annual Salary: $</th>
<th>$/hour</th>
<th>Required Education</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INDUSTRIAL MACHINERY MECHANIC</strong></td>
<td>51,000</td>
<td>14-$43</td>
<td>Two-Year Degree or Certificate</td>
<td>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.</td>
</tr>
<tr>
<td><strong>DIESEL ENGINE SPECIALIST</strong></td>
<td>46,000</td>
<td>15-$35</td>
<td>Two-Year Degree or Certification</td>
<td>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.</td>
</tr>
<tr>
<td><strong>PLUMBER/PIPEFITTER</strong></td>
<td>49,000</td>
<td>15-$36</td>
<td>Two-Year Degree or Certificate</td>
<td>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.</td>
</tr>
<tr>
<td><strong>CRANE &amp; TOWER OPERATOR</strong></td>
<td>56,000</td>
<td>17-$40</td>
<td>Certificate or On-the-Job Training</td>
<td>Load and unload containers on and off ships. Extend and retract horizontally mounted booms and lower and raise hooks attached to load lines.</td>
</tr>
<tr>
<td><strong>WELDER</strong></td>
<td>43,000</td>
<td>15-$36</td>
<td>Two-Year Degree or Technical Certificate</td>
<td>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.</td>
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<tr>
<td><strong>MAINTENANCE MECHANIC</strong></td>
<td>50,000</td>
<td>12-$22</td>
<td>Apprenticeship, Certification or On-the-Job Training</td>
<td>Keep machines, mechanical equipment, buildings, and roads at port facilities in good repair by performing routine checks. May work alongside and assist machinery mechanics.</td>
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Sources: American Maritime Partnership, the Port of Houston, Society for Human Resource Management, WISERTrade
THE ENGINE REVVING HOUSTON’S ECONOMY

WHY WORK IN PETROCHEM?

HIGHER SALARIES THAN THE HOUSTON AVERAGE

HOUSTON IS THE ENERGY CAPITAL OF THE WORLD

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.

WHAT ARE YOU UP FOR?

✓ 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.

UPSKILLHOUSTON.org
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.

**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.

**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.

**QUALITY ASSURANCE LABORATORY TECHNICIAN**
Average Annual Salary: $43,000  
$19-$40/hour  
Certificate or On-the-Job Training  
Conduct tests to ensure raw materials and finished products meet or exceed quality standards. Operate, calibrate, and maintain lab equipment to ensure high-quality products.

**WELDER**
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.

**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.

Sources: Bureau of Labor Statistics, Greater Houston Partnership
FUELING HOUSTON INTO THE FUTURE

WHY WORK IN OIL AND GAS?

HOUSTON IS THE ENERGY CAPITAL OF THE WORLD.

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.

WHAT ARE YOU UP FOR?

- 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.

FUELING HOUSTON INTO THE FUTURE

UPSKILLHOUSTON.org
**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.

**ELECTRICAL ENGINEERING TECHNICIAN**
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.

**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.

**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.

**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.

**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.

Sources: Bureau of Labor Statistics, Greater Houston Partnership
GLOBAL HEALTH IN HOUSTON’S HANDS

WHAT ARE YOU UP FOR?

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.

WHY WORK IN HEALTH CARE?

Houston is home to the largest medical complex in the world

The Texas Medical Center

1 OUT OF 8 JOBS IN THE REGION IS IN HEALTH CARE.

HOUSTON EMPLOYS OVER 335,000 HEALTHCARE PROFESSIONALS

ONE OF THE FASTEST GROWING INDUSTRIES IN THE U.S.

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

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UPSKEEY HOUSTON.org
# Careers in Healthcare Include...

## Diagnostic Medical Sonographer
- **Average Annual Salary:** $71,000
- **Hourly Rate:** $26-$86/hour
- **Degree:** Two-Year Degree
- Operate special imaging equipment to create images or conduct tests that help physicians assess medical conditions. Assist during surgical procedures.

## Radiological Technologist
- **Average Annual Salary:** $57,000
- **Hourly Rate:** $20-$37/hour
- **Degree:** 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.

## Medical Records and Health Information Technician
- **Average Annual Salary:** $38,000
- **Hourly Rate:** $11-$33/hour
- **Degree:** 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.

## Surgical Technologist
- **Average Annual Salary:** $47,000
- **Hourly Rate:** $16-$31/hour
- **Degree:** 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.

## Medical and Clinical Laboratory Technician
- **Average Annual Salary:** $38,000
- **Hourly Rate:** $13-$28/hour
- **Degree:** 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.

## Licensed Practical and Vocational Nurse
- **Average Annual Salary:** $47,000
- **Hourly Rate:** $19-$35/hour
- **Degree:** 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.

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Sources: Bureau of Labor Statistics, Texas Medical Center
WHAT ARE YOU UP FOR?

- 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.

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.
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.

**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.

**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.

**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.

**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.

**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.

Sources: Greater Houston Partnership, Society for Human Resource Management, Texas Workforce Commission
DYNAMIC. STATE OF THE ART. MADE IN TEXAS.

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.

WHAT ARE YOU UP FOR?

✓ 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.

UPSKILLHOUSTON.org
CAREERS IN ADVANCED MANUFACTURING INCLUDE...

**INDUSTRIAL MACHINERY MECHANIC**
Average Annual Salary: $51,000  
$14-$43/hour  
Two-Year Degree/ Apprenticeship/ On-the-Job Training  
Install, adjust, or maintain industrial machinery or refinery distribution systems. Responsible for general building repairs and ensuring that everything works properly; keeping track of machines are safety and efficiency.

**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.

**QUALITY CONTROL INSPECTOR**
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.

**ELECTRICAL ENGINEERING TECHNICIAN**
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.

Sources: Greater Houston Partnership, Society for Human Resource Management, Texas Workforce Commission