Transportation Career Ladder

Prepared by AdvanceCT and Thomas P. Miller & Associates
To increase job opportunities in Connecticut’s green technology sector, lower energy costs, improve energy efficiency and promote sustainability, the Office of Workforce Competitiveness, in consultation with other agencies, created a green jobs career ladder. This ladder is designed to link green jobs employers with technical education and career schools and institutions of higher education to foster coordination and grow the workforce in the sector.

The green jobs ladder includes components such as the scope of the industry and various occupations included, the skills and knowledge needed to succeed in those occupations, and the professional opportunities available at the entry, mid-career and advanced levels, along with the current salary ranges for each. To maintain this ladder as a comprehensive and useful resource for the green technology industry and its educational partners, it will be updated periodically as needed.
Transportation Career Ladder

<table>
<thead>
<tr>
<th>Entry Level</th>
<th>Mid-Career</th>
<th>Advanced</th>
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</thead>
<tbody>
<tr>
<td>High School Diploma and On-the-Job Training</td>
<td>Bachelor’s Degree/ 5 Years or Less of Training</td>
<td>Doctoral or professional degree/ 5+ Years of Training</td>
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</tbody>
</table>

- **Mechanical Engineering Technicians**
- **Engineering Technicians, Except Drafters, All Other**
- **Automotive Service Technicians and Mechanics**
- **Heavy and Tractor-Trailer Truck Drivers**
- **Social Scientists and Related Workers, All Other**
- **Aerospace Engineers**
- **Civil Engineers**
- **Electronics Engineers, Except Computer**
- **Mechanical Engineers**
- **Managers, All Other**

The lines within this career ladder provide potential pathways that workers can follow within this industry ecosystem. The colors are simply to differentiate one pathway option from the other.
Aerospace Engineers Occupational Profile

**MEDIAN SALARY & WAGES**

$51.34/Hour

**TOTAL JOBS FOR 2024**

1233

**COMMON JOB TITLES**

- Structural Engineers
- Flight Engineers
- Mechanical Engineers
- Design Engineers

**COMMON KNOWLEDGE COMPETENCIES**

- Engineering and Technology
- Mathematics
- Design
- Physics

**REQUESTED EDUCATION**

- High School or Less
- Post-Secondary Certificate
- Bachelor's

**TOP CERTIFICATIONS REQUESTED**

- Master of Business Administration
- Project Management Professional
- Hardware Certification

**TOP SKILLS REQUESTED**

- Critical Thinking
- Reading Comprehension
- Science
- Active Listening
- Writing
- Speaking
- Mathematics
- Complex Problem Solving
- Operations Analysis
- Monitoring

**SIMILAR INDUSTRIES**

- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
# Automotive Service Technicians and Mechanics

## Occupational Profile

### MEDIAN SALARY & WAGES

$37.20/Hour

### COMMON JOB TITLES

- Automotive Technicians
- Maintenance Mechanics
- Maintenance Technicians
- Lube Technicians

### REQUESTED EDUCATION

- High School or Less
- Post-Secondary Certificate

### COMMON KNOWLEDGE COMPETENCIES

- Mechanical
- Customer and Personal Service
- Computers and Electronics
- English Language

### TOP SKILLS REQUESTED

- Repairing
- Troubleshooting
- Operation Monitoring
- Operation and Control
- Equipment Maintenance
- Critical Thinking
- Quality Control Analysis
- Judgement and Decision Making
- Equipment Selection
- Active Listening

### TOP CERTIFICATIONS REQUESTED

- Automotive Service Excellence
- ASE Advanced Engine Performance
- ASE Auto Maintenance And Light Repair
- Mobile Electronics Certified Professional

### TOTAL JOBS FOR 2024

8407

### SIMILAR INDUSTRIES

- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

*Indicates an especially close similarity*

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
# Civil Engineers Occupational Profile

<table>
<thead>
<tr>
<th>MEDIAN SALARY &amp; WAGES</th>
<th>COMMON JOB TITLES</th>
<th>REQUESTED EDUCATION</th>
<th>TOP SKILLS REQUESTED</th>
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<td>$45.02/Hour</td>
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<td>Bridge Engineers</td>
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<td>Geotechnical Engineers</td>
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<td>Mathematics</td>
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<table>
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<tr>
<th>COMMON KNOWLEDGE COMPETENCIES</th>
<th>TOP CERTIFICATIONS REQUESTED</th>
<th>SIMILAR INDUSTRIES</th>
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<tbody>
<tr>
<td>Engineering and Technology</td>
<td>Licensed Engineer</td>
<td>Agriculture &amp; Forestry</td>
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<tr>
<td>Building and Construction</td>
<td>Professional Engineer</td>
<td>Energy Efficiency &amp; Storage</td>
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<td>Mathematics</td>
<td>Master of Business Administration</td>
<td>Government &amp; Regulatory Administration</td>
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<tr>
<td>Design</td>
<td>Traffic Control Supervisor</td>
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| TOTAL JOBS FOR 2024 | 3713 |

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<tr>
<th>SIMILAR INDUSTRIES</th>
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<tr>
<td>Agriculture &amp; Forestry</td>
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<tr>
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<tr>
<td>Government &amp; Regulatory Administration</td>
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<tr>
<td>Transportation</td>
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<tr>
<td>Green Construction</td>
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<tr>
<td>Research, Design, Consulting, &amp; Supportive Services</td>
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<tr>
<td>Manufacturing</td>
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<tr>
<td>Renewable Energy Generation</td>
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</tbody>
</table>

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
Electronics Engineers, Except Computer Occupational Profile

**MEDIAN SALARY & WAGES**

$51.33/Hour

**COMMON JOB TITLES**

- Design Engineers
- Systems Engineers
- Electronics Engineers
- Controls Engineers

**REQUESTED EDUCATION**

- High School or Less
- Post-Secondary Certificate
- Bachelor’s

**TOP SKILLS REQUESTED**

- Reading Comprehension
- Critical Thinking
- Complex Problem Solving
- Writing
- Speaking
- Systems Analysis
- Active Listening
- Monitoring
- Judgement and Decision Making
- Active Learning

**COMMON KNOWLEDGE COMPETENCIES**

- Engineering and Technology
- Computers and Electronics
- Mathematics
- Design

**TOTAL JOBS FOR 2024**

1053

**TOP CERTIFICATIONS REQUESTED**

- Professional Engineer
- Master of Business Administration
- Product Certification
- AVIXA Certified Technology Specialist

**SIMILAR INDUSTRIES**

- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
## Engineering Technicians, Except Drafters, All Other

### Occupational Profile

<table>
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<tr>
<th>MEDIAN SALARY &amp; WAGES</th>
<th>COMMON JOB TITLES</th>
<th>REQUESTED EDUCATION</th>
<th>TOP SKILLS REQUESTED</th>
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<tr>
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<tr>
<td>Renewable Energy Generation</td>
</tr>
</tbody>
</table>

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
Heavy and Tractor-Trailer Truck Drivers
Occupational Profile

**MEDIAN SALARY & WAGES**
$23.98/Hour

**TOTAL JOBS FOR 2024**
13,306

**COMMON JOB TITLES**
- Truck Drivers
- Owner Operators
- Commercial Driver’s License Drivers
- B2B Sales Representatives

**COMMON KNOWLEDGE COMPETENCIES**
- Transportation
- Public Safety and Security
- Customer and Personal Service
- English Language

**REQUESTED EDUCATION**
- High School or Less
- Post-Secondary Certificate

**TOP SKILLS REQUESTED**
- Operation and Control
- Operation Monitoring
- Time Management
- Reading Comprehension
- Speaking
- Critical Thinking
- Monitoring
- Troubleshooting
- Active Listening
- Coordination

**TOP CERTIFICATIONS REQUESTED**
- Commercial Driver’s License
- Certified Professional Coder
- Certified Forklift Operator
- Transportation Worker Identification Credential (TWIC) Card

**SIMILAR INDUSTRIES**
- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
Managers, All Other Occupational Profile

**Common Job Titles**
- Project Managers
- Program Managers
- Supply Chain Managers
- Project Managers, Computer

**Common Knowledge Competencies**
- English Language
- Administration and Management
- Law and Government
- Customer and Personal Service

**Total Jobs for 2024**
6837

**Median Salary & Wages**
$62.37/Hour

**Requested Education**
- High School or Less
- Post-Secondary Certificate
- Bachelor’s

**Top Skills Requested**
- Speaking
- Critical Thinking
- Reading Comprehension
- Active Listening
- Writing
- Monitoring
- Judgement and Decision Making
- Coordination
- Complex Problem Solving
- Active Listening

**Top Certifications Requested**
- Master of Business Administration
- Certified Public Accountant
- Chartered Financial Analyst
- Certified Internal Auditor

**Similar Industries**
- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
# Mechanical Engineering Technicians

## Occupational Profile

### MEDIAN SALARY & WAGES

$33.61/ Hour

### COMMON JOB TITLES

- Mechanical Technicians
- Engineering Technicians
- Engineering Interns
- Electrical Technicians

### REQUESTED EDUCATION

<table>
<thead>
<tr>
<th>High School or Less</th>
<th>Post-Secondary Certificate</th>
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</thead>
</table>

### TOTAL JOBS FOR 2024

457

### COMMON KNOWLEDGE COMPETENCIES

- Engineering and Technology
- Design
- Mechanical
- Mathematics

### TOP CERTIFICATIONS REQUESTED

None

### TOP SKILLS REQUESTED

- Reading Comprehension
- Active Listening
- Critical Thinking
- Operation Monitoring
- Writing
- Speaking
- Complex Problem Solving
- Monitoring
- Active Learning
- Judgement and Decision Making

### SIMILAR INDUSTRIES

- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

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State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020

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# Mechanical Engineers Occupational Profile

## MEDIAN SALARY & WAGES

$45.32/Hour

## COMMON JOB TITLES

- Mechanical Engineers
- Project Engineers
- Front-End Developers
- Design Engineers (Architecture and Engineering)

## COMMON KNOWLEDGE COMPETENCIES

- Engineering and Technology
- Mathematics
- Design
- Mechanical

## REQUESTED EDUCATION

- High School or Less
- Post-Secondary Certificate
- Bachelor's

## TOP CERTIFICATIONS REQUESTED

- Master of Business Administration
- Professional Engineer
- Licensed Professional Engineer
- Project Management Professional

## TOP SKILLS REQUESTED

- Reading Comprehension
- Active Listening
- Mathematics
- Science
- Critical Thinking
- Complex Problem Solving
- Operations Analysis
- Judgement and Decision Making
- Active Learning
- Systems Evaluation

## TOTAL JOBS FOR 2024

457

## SIMILAR INDUSTRIES

- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

*Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
Social Scientists and Related Workers, All Other Occupational Profile

**Median Salary & Wages**
$37.47/Hour

**Total Jobs for 2024**
294

**Common Job Titles**
- Transportation Planners
- Social and Human Service Assistants
- Social Workers

**Requested Education**
- High School or Less
- Post-Secondary Certificate
- Bachelor’s

**Top Skills Requested**
- Reading Comprehension
- Active Listening
- Critical Thinking
- Complex Problem Solving
- Writing
- Speaking
- Judgement and Decision Making
- Active Learning
- Coordination
- Systems Evaluation

**Common Knowledge Competencies**
- Transportation
- Environmental Protection & Waste Reduction
- English Language
- Customer and Personal Service
- Mathematics

**Top Certifications Requested**
- American Institute Of Certified Planners

**Similar Industries**
- Agriculture & Forestry
- Energy Efficiency & Storage
- Environmental Protection & Waste Reduction
- Government & Regulatory Administration
- Transportation
- Green Construction
- Research, Design, Consulting, & Supportive Services
- Manufacturing
- Renewable Energy Generation

Indicates an especially close similarity

State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020 13
## Education & Training Institutions Offerings

<table>
<thead>
<tr>
<th>Aerospace Engineers</th>
<th>Automotive Engineering Technicians</th>
<th>Automotive Engineers</th>
<th>Automotive Specialty Technicians</th>
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<td>Central Connecticut State University</td>
<td>Lincoln Technical Institute</td>
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<td>Dominion Nuclear Connecticut Inc- Apprenticeship</td>
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<td>Dubaldo Electric Co</td>
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<td>United States Coast Guard Academy</td>
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<td>United States Coast Guard Academy</td>
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State of Connecticut Department of Labor, Office of Workforce Competitiveness, Spring 2020
## Education & Training Institutions Offerings

<table>
<thead>
<tr>
<th>Electronics Engineers, Except Computer</th>
<th>Fuel Cell Engineers</th>
<th>Fuel Cell Technicians</th>
<th>Heavy and Tractor-Trailer Truck Drivers</th>
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<tbody>
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<td>Advanced Electrical Services, Inc.</td>
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<td>Eversource Energy- Gas Operations</td>
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<td>Gateway Community College</td>
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## Education & Training Institutions Offerings

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<th>Transportation Engineers</th>
<th>Transportation Planners</th>
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<td>Naugatuck Valley Community College</td>
<td>Yale University</td>
<td>Yale University</td>
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Glossary

ABILITIES – the proficiency, skills, or talent within a particular area.

CAREER PATHWAY – a career pathway means a combination of relevant, rigorous and high-quality education, training, and supportive services that aligns both vertically and horizontally across Secondary Education, Adult Basic Education, Workforce Training and Development, Career and Technical Education, and Postsecondary Education systems, pathways, and programs.

CERTIFICATION – third party accrediting or authorizing agency or person who assess, verifies, and provides an official documentation that attests a level of achievement.

COMPETENCIES – an individual’s ability to do a job properly through a set of behaviors.

INDUSTRY-ALIGNED CREDENTIAL – credentials whose standards are aligned to industry-recognized standards.

INDUSTRY-ENDORSED CREDENTIAL – credentials whose standards are aligned to and endorsed by industry.

INDUSTRY-RECOGNIZED CREDENTIAL – an industry-recognized credential is one that either is developed and offered by, or endorsed by a nationally-recognized industry association or organization representing a sizeable portion of the industry sector, or a credential that is sought or accepted by companies within the industry sector for purposes of hiring or recruitment which may include credentials from vendors of certain products.

KNOWLEDGE – the skills and information acquired through education or experience.

MEDIAN HOURLY EARNINGS – hourly earnings for the occupation reported at the 50th percentile.

REQUESTED EDUCATION – the highest level of education for workers within the given occupational category. Please note these are not the level of education of new incoming workers but of workers currently employed within these positions.

SKILLS – the ability or expertise to do something well.

TOTAL JOBS – estimated number of jobs in the given year, taken as average over a period of 12-months. This value includes both full- and part-time jobs.