Renewable Energy Generation Career Ladder



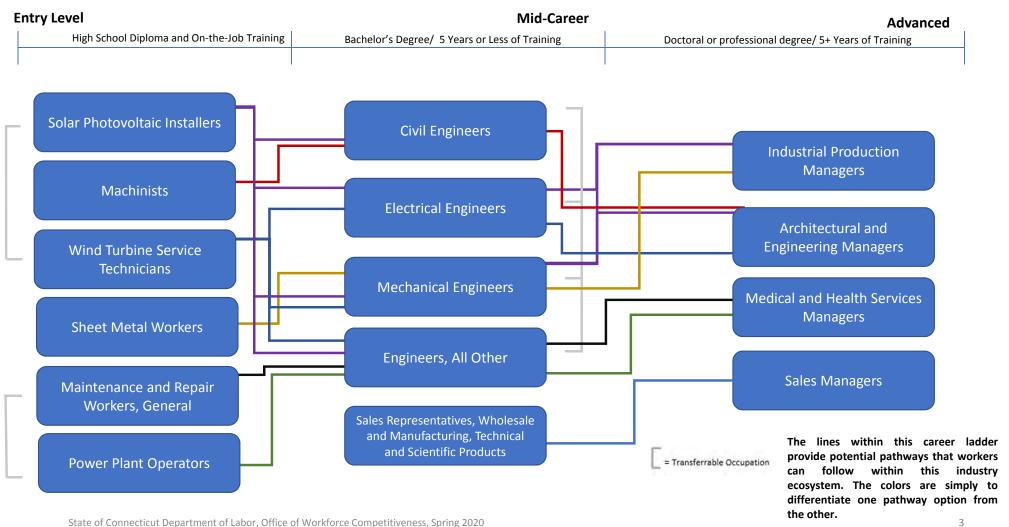


Prepared by AdvanceCT and Thomas P. Miller & Associates

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.

Renewable Energy Generation Ladder



Architecture and Engineering Managers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



Transportation



Green Construction



Research, Ma Design, Consulting, &



Manufacturing

Renewable Energy Generation



Supportive Services

Civil Engineers Occupational Profile



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



Electrical Engineers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



Transportation



Construction



Research, Design, Consulting, & Supportive Services



Manufacturing



Renewable Energy Generation



Engineers, All Other Occupational Profile



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

Industrial Production Managers Occupational Profile



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

Machinists Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



ment & Transportation latory



Green Construction



Research, Manufacturing Design, Consulting, &



Renewable Energy Generation

Supportive Services



Maintenance and Repairer Workers, General Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Regulatory Administration



Government & Transportation



Green Construction



Research, Design, Consulting, & Supportive Services



Manufacturing



Renewable Energy Generation

Mechanical Engineers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



ernment & Transportation egulatory



Green Construction



Research, Design, Consulting, & Supportive Services



Manufacturing



Renewable Energy Generation

Medical and Health Service Managers Occupational **Profile**



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Protection & Waste Reduction



Government & Regulatory Administration



Transportation



Construction



Research, Design, Consulting, & Supportive

Services



Manufacturing



Energy Generation

Power Plant Operators Occupational Profile



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

Sales Managers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental
Protection &
Waste
Reduction



Government & Regulatory Administration



Transportation



Green Construction



Research,

Design,

Consulting, &

Supportive Services

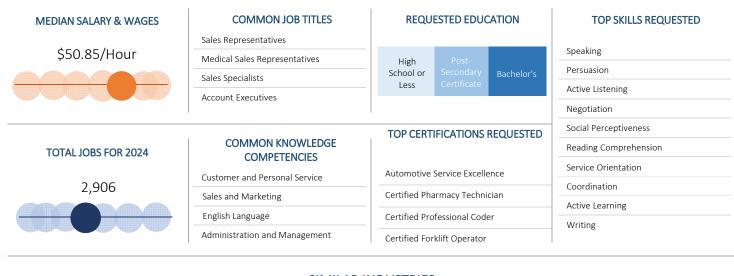
Manufacturing



Renewable Energy Generation

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

Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Protection & Waste Reduction



Government & Regulatory Administration



nent & Transportation tory



Green Construction



Manufacturing



Renewable Energy Generation

Research,

Design,

Consulting, &

Supportive Services

Sheet Metal Workers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



ment & Transportation atory



Green Construction



Research, Design, Consulting, & Supportive Services



Manufacturing



Renewable Energy Generation



Solar Photovoltaic Installers Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



Transportation



Green Construction



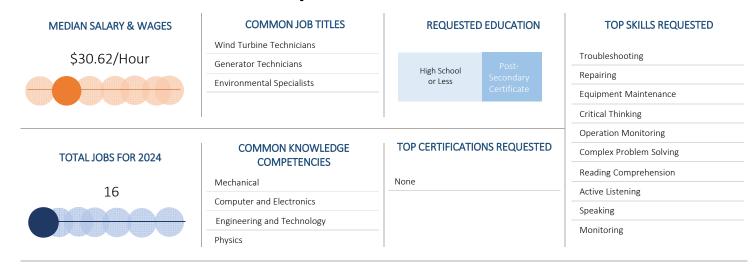
Research, Manufacturing Design, Consulting, &

Supportive Services



Renewable Energy Generation

Wind Turbine Service Technicians Occupational Profile



SIMILAR INDUSTRIES



Agriculture & Forestry



Energy Efficiency & Storage



Environmental Protection & Waste Reduction



Government & Regulatory Administration



Transportation



Green Construction



Research, Design, Consulting, & Supportive Services



Manufacturing



Energy Generation

Biofuels/Biodiesel Technology and Product Development Managers	Biofuels Production Managers	Biomass Power Plant Managers	Civil Engineers
Asnuntuck Community College Gateway Community College Housatonic Community College Manchester Community College Middlesex Community College Naugatuck Valley Community College Northwestern Connecticut Community College Norwalk Community College Quinebaug Valley Community College Three Rivers Community College Tunxis Community College University of Connecticut, Storrs Campus University of New Haven Yale University	Asnuntuck Community College Central Connecticut State University Eversource (Convex Operating Group)- OJT Fairfield University Gateway Community College Goodwin College Manchester Community College Naugatuck Valley Community College Quinnipiac University Southern Connecticut State University University of Connecticut, Storrs Campus University of Hartford University of New Haven	Asnuntuck Community College Central Connecticut State University Eversource (Convex Operating Group)- OJT Fairfield University Gateway Community College Goodwin College Manchester Community College Naugatuck Valley Community College Quinnipiac University Southern Connecticut State University University of Connecticut, Storrs Campus University of Hartford University of New Haven	Capital Community College Central Connecticut State University Quinnipiac University United States Coast Guard Academy University of Connecticut, Storrs Campus University of Hartford University of New Haven

Electrical Engineers	Geothermal Production Managers	Hydroelectric Production Managers	Machinists
Advanced Electrical Services, Inc. Dominion Nuclear Connecticut Inc- Apprenticeship Dubaldo Electric Co Eversource (Convex Operating Group)- OJT Fairfield University Griffin Electrical Contractors, Inc. Haskins Electric, LLC National Electrical Contractors Associates NECA & Local 90 JATC Ray Brown Electric, LLC Sacred Heart University Trinity College United States Coast Guard Academy University of Bridgeport	Geothermal Production Managers Asnuntuck Community College Central Connecticut State University Eversource (Convex Operating Group)- OJT Fairfield University Gateway Community College Goodwin College Manchester Community College Naugatuck Valley Community College Quinnipiac University Southern Connecticut State University University of Connecticut, Storrs Campus University of New Haven	Asnuntuck Community College Central Connecticut State University Eversource (Convex Operating Group)- OJT Fairfield University Gateway Community College Goodwin College Manchester Community College Naugatuck Valley Community College Quinnipiac University Southern Connecticut State University University of Hartford University of New Haven	Machinists Bristol Technical Education Center General Dynamics Electric Boat Division Housatonic Community College Manufacturing Alliance Service Corporation, Inc. Middlesex Community College Naugatuck Valley Community College Pa-Ted Spring Company, LLC. Quinebaug Valley Community College Renchel Tool Inc. TRUMPF Inc. Tunxis Community College
University of Connecticut, Storrs Campus University of Hartford University of New Haven Yale University			

Mechanical Engineers	Methane/Landfill Gas Collection System Operators	Sheet Metal Workers	Solar Energy Systems Engineers
Central Connecticut State University Fairfield University Quinnipiac University United States Coast Guard Academy University of Bridgeport University of Connecticut, Storrs Campus University of Hartford University of New Haven Yale University	Asnuntuck Community College Central Connecticut State University Eversource (Convex Operating Group)- OJT Fairfield University Gateway Community College Goodwin College Manchester Community College Naugatuck Valley Community College Quinnipiac University Southern Connecticut State University University of Connecticut, Storrs Campus University of Hartford University of New Haven	Air TempMechanical Services Construction Education Center, Inc. New England Mechanical Services, INC. Sheet Metal Workers, Local Union 40, JACT Three Rivers Community College	Asnuntuck Community College Capital Community College Gateway Community College Housatonic Community College Manchester Community College Middlesex Community College Naugatuck Valley Community College Northwestern Connecticut Community College Norwalk Community College Quinebaug Valley Community College Three Rivers Community College Tunxis Community College University of Connecticut, Storrs Campus Yale University

Solar Photovoltaic Installers	Wind Energy Engineers	Wind Energy Operations Managers	Wind Energy Project Managers
Solar Photovoltaic Installers struction Education Center, Inc. eway Community College	Asnuntuck Community College Capital Community College Gateway Community College Housatonic Community College Manchester Community College Middlesex Community College Naugatuck Valley Community College Northwestern Connecticut Community College Norwalk Community College Quinebaug Valley Community College Three Rivers Community College Tunxis Community College University of Connecticut, Storrs Campus Yale University	Albertus Magnus College Asnuntuck Community College Capital Community College Central Connecticut State University Charter Oak State College Eastern Connecticut State University Fairfield University Gateway Community College Goodwin College Housatonic Community College Manchester Community College Mitchell College Naugatuck Valley Community College New Horizons Computer Learning Center Northwestern Connecticut Community College Norwalk Community College Patrick's Academy Post University Quinebaug Valley Community College Quinnipiac University Sacred Heart University Southern Connecticut State University Three Rivers Community College United States Coast Guard Academy University of Bridgeport University of Connecticut, School of Business University of Connecticut, Starnford University of Connecticut, Tri-Campus University of Hartford University of New Haven	Albertus Magnus College Capital Community College Central Connecticut State University Charter Oak State College Fairfield University Gateway Community College Goodwin College Mitchell College Mitchell College New Horizons Computer Learning Center Northwestern Connecticut Community College Patrick's Academy Post University Quinebaug Valley Community College Quinnipiac University Sacred Heart University Southern Connecticut State University United States Coast Guard Academy University of Bridgeport University of Connecticut - Waterbury Campus University of Connecticut, Stamford University of Connecticut, Storrs Campus University of Hartford University of New Haven University of Saint Joseph Western Connecticut State University Yale University

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.

KNOWELDGE – 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.