



What are the Green Occupations in Missouri?

Much has been said and written about the emerging Green Economy and the potential impact Green Job opportunities can have on a state's employment. But, what are these opportunities? And, which occupations are considered to be Green Jobs in Missouri?

A Green Job can generally be thought of as one in which the outcome of work creates a positive impact on the environment. Following this definition, the researchers at the Missouri Economic Research and Information Center (MERIC) identified 56 occupations considered Green Occupations in the state of Missouri. Of these 56 occupations, 18 were further classified as Green Core, meaning the core function of those occupations can directly relate to creating a positive impact on the environment.



How were Missouri's Green Occupations determined?

The Missouri Green Occupation list and associated employment and wage data was formulated based on the combination of three sets of information and/or data. These are: (1) The 2009 Missouri Green Jobs Survey; (2) The Occupational Information Network (O*NET®) classification of Green Occupations; and (3) Long-Term (2008-2018) Statewide Occupational Projections.

Since each occupation, nationally and in Missouri, is given a six-digit numerical identification (known as the Standard Occupational Code or SOC), this cross-variable within all three datasets was used to develop a Missouri-specific list of Green Occupations.

MERIC used results of their first-ever Green Jobs Survey as the initial base of Green Occupations in the state. After employer-provided job titles were coded with the related SOC, they were merged with a Green Occupations list provided by O*NET. This was done to ensure there were not any missing Green Occupations identified by other significant research.

From the merged survey and O*NET occupation lists, certain occupations were discarded based on the general function of these particular occupations. For instance, some occupations identified in the Green Jobs Survey were jobs whose activities may or may not lead to the production of Green-related products or services. Given the broad nature of these occupation titles they were not labeled a "Green Occupation" in Missouri.

However, occupations that do require extensive training/education or job skills necessary in directly generating a firm's green-related products or services were included and examined. This list was then merged with the Missouri occupational projections data to provide employment, wages, career grades, WorkKeys® scores, typical training/education required, etc.

In the process of merging the lists from the Green Jobs Survey, O*NET, and Missouri projections, the 56 occupations in this table were identified as Missouri's Green Occupations.

From the list of 56 occupations, a narrowed list of 18 occupations are flagged as Core Green Occupations. These are identified in this table with a Green leaf. This designation signifies that the core functions of the job create a positive impact on the environment.

Green Scale	SOC	Occupation Title
	13-1073	Training & Development Specialists
	49-9051	Electrical Power-Line Installers & Repairers
🌿	17-2051	Civil Engineers
	49-9042	Maintenance & Repair Workers, General
	49-3023	Automotive Service Technicians & Mechanics
	47-2061	Construction Laborers
	47-2073	Operating Engineers & Other Construction Equipment Operators
	49-9041	Industrial Machinery Mechanics
	49-9021	Heating, Air Conditioning, & Refrigeration Mechanics & Installers
🌿	11-9021	Construction Managers
🌿	19-2041	Environmental Scientists & Specialists (Including Health)
	49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equip.
	47-2031	Carpenters
	47-2152	Plumbers, Pipefitters, & Steamfitters
🌿	17-2081	Environmental Engineers
🌿	19-3051	Urban & Regional Planners
🌿	17-1012	Landscape Architects
🌿	17-3025	Environmental Engineering Technicians
	17-2141	Mechanical Engineers
	17-2072	Electronics Engineers (Except Computer)
	17-2071	Electrical Engineers
🌿	17-1011	Architects (Except Landscape & Naval)
	11-9041	Engineering Managers

What sources were used to determine whether an occupation was a Green Occupation?

The 2009 Missouri Green Jobs Survey

In the 2009 Missouri Green Jobs Survey, employers reported the green employment for their firm by job title. These job titles were coded by occupation using the SOC system in order to assign each title a six-digit code used for occupational analysis. Once the titles were coded, survey responses were weighted based on each industry's share of sample units. The survey counts of Green Jobs by job title were converted into estimates of total Green Jobs by occupation by Green Industry sector.

Long-Term (2008-2018) Statewide Occupational Projections

Occupational employment projections are developed using data from Missouri's Occupational Employment and Wage Survey (OES) along with Quarterly Census of Employment and Wages (QCEW) data provided by the State of Missouri and the U.S. Bureau of Labor Statistics. The data collected reflect the Standard Occupational Classification (SOC).

The Occupational Information Network (O*NET) classification of Green Occupations

O*NET research investigated the impact of the Green Economy activities and technologies on occupational requirements to determine their impact on current O*NET-SOC occupations. It also identified new and emerging Green Occupations for inclusion in the O*NET-SOC system. O*NET established three general occupational categories:

Green Increased Demand

The impact of green economy activities and technologies is an increase in the employment demand for an existing occupation.

Green Enhanced Skills

The impact of green economy activities and technologies results in a significant change to the work and worker requirements of an existing O*NET-SOC occupation.

Green New and Emerging (N&E)

The impact of green economy activities and technologies is sufficient to create the need for unique work and worker requirements, which results in the generation of a new occupation relative to the O*NET taxonomy.



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Green Scale	SOC	Occupation Title
	19-2031	Chemists
🌱	11-9121	Natural Sciences Managers
🌱	19-2042	Geoscientists (Except Hydrologist & Geographers)
	47-2111	Electricians
	11-3051	Industrial Production Managers
🌱	53-7081	Refuse & Recyclable Material Collectors
🌱	47-4011	Construction & Building Inspectors
	49-9099	Installation, Maintenance, & Repair Workers, All Other
🌱	19-4091	Environmental Science & Protection Technicians (Including Health)
🌱	19-1031	Conservation Scientists
	51-4121	Welders, Cutters, Solderers, & Brazers
	47-2211	Sheet Metal Workers
	51-9061	Inspectors, Testers, Sorters, Samplers, & Weighers
	43-5061	Production, Planning, & Expediting Clerks
🌱	17-3011	Architectural & Civil Drafters
	47-2181	Roofers
	51-2041	Structural Metal Fabricators & Fitters
	47-2131	Insulation Workers, Floor, Ceiling, & Wall
🌱	45-4011	Forest & Conservation Workers
	53-7062	Laborers & Freight, Stock, & Material Movers, Hand
	51-2092	Team Assemblers
🌱	17-2111	Health & Safety Engineers (Except Mining Safety Engineers & Inspectors)
	17-3023	Electrical & Electronic Engineering Technicians
	47-2221	Structural Iron & Steel Workers
🌱	47-4041	Hazardous Materials Removal Workers
	27-1021	Commercial & Industrial Designers
	51-9199	Production Workers, All Other
	49-9098	Helpers--Installation, Maintenance, & Repair Workers
	51-2022	Electrical & Electronic Equipment Assemblers
	51-2031	Engine & Other Machine Assemblers
	19-4031	Chemical Technicians
	47-4099	Construction & Related Workers, All Other
	47-3012	Helpers--Carpenters