

STEM Skills in Maine: The Changing Occupational Landscape and Real Time Demand

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*O*NET Occupations*

- O*NET Occupational Classification System
 - Based on the Standard Occupational Classification System (SOC)
 - SOC mandated by US Office of Management and Budget
 - Developed by multi-agency initiative
 - Currently data collected on 812 O*NET-SOCs

The Green Economy and STEM

- **Green Increased Demand Occupations:**

- 68 O*NET-SOC occupations

- Geological and Petroleum Technicians; Locomotive Engineers; Architectural Drafters; Chemists; Natural Science Managers; Agricultural Inspectors [Green Increased Demand](#)

- **Green Enhanced Skills Occupations:**

- 57 O*NET-SOC occupations

- Power Plant Operators; Electrical Engineers; Heating and Air Conditioner Mechanics and Installers; Roofers; Nuclear Engineers; Construction Managers; Farmers and Ranchers; Hazardous Materials Handlers [Green Enhanced Skills](#)

- **Green New & Emerging Occupations:**

- 90 O*NET SOC occupations

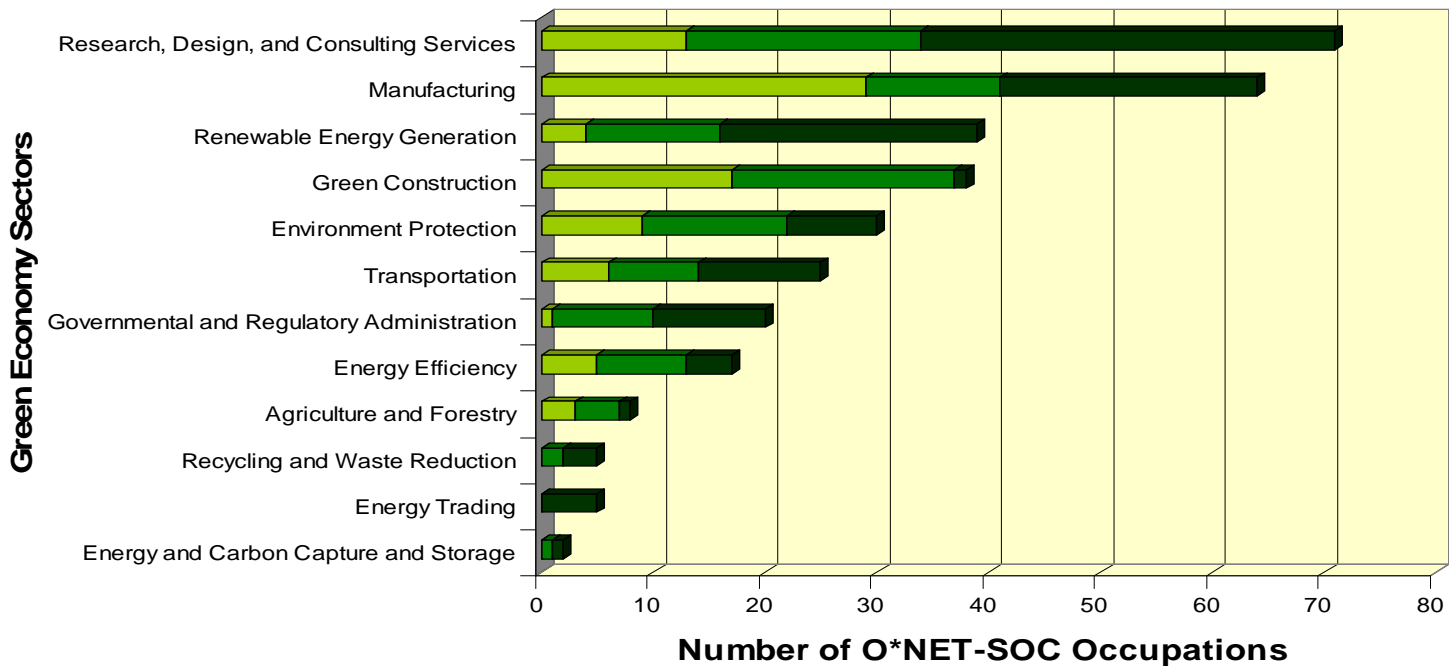
New and Emerging Occupations

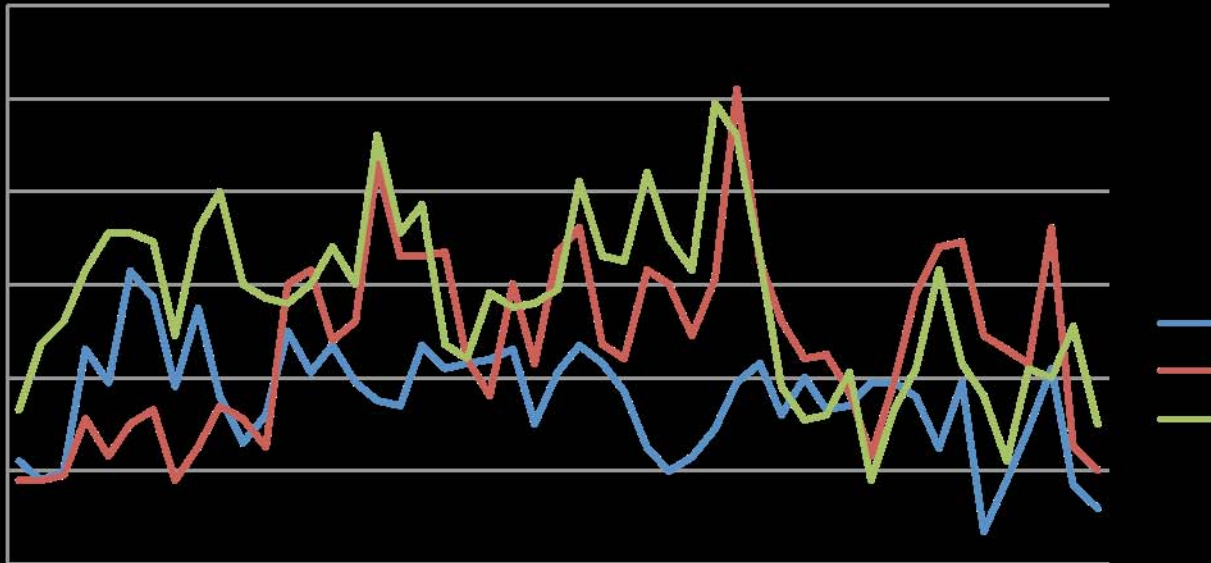
- 45 O*NET-SOCs previously identified through research on in-demand industries
 - Logistic Engineers, Fuel Cell Engineers, Energy Auditors, Precision Agriculture Technicians, Photonics Engineers, Robotics Technicians, Manufacturing Engineering Technologists
- 45 additional candidate N &E occupations
 - Wind Turbine or Farm Engineers, Wind Turbine Service Technicians, Biofuels Plant Operators, Solar Power Plant Technicians, Solar Sales Representatives/Assessors, Weatherization Technicians/Installers, Carbon Credit Traders

O*NET Green Jobs

Distribution of Green O*NET-SOC Occupations Across Sectors

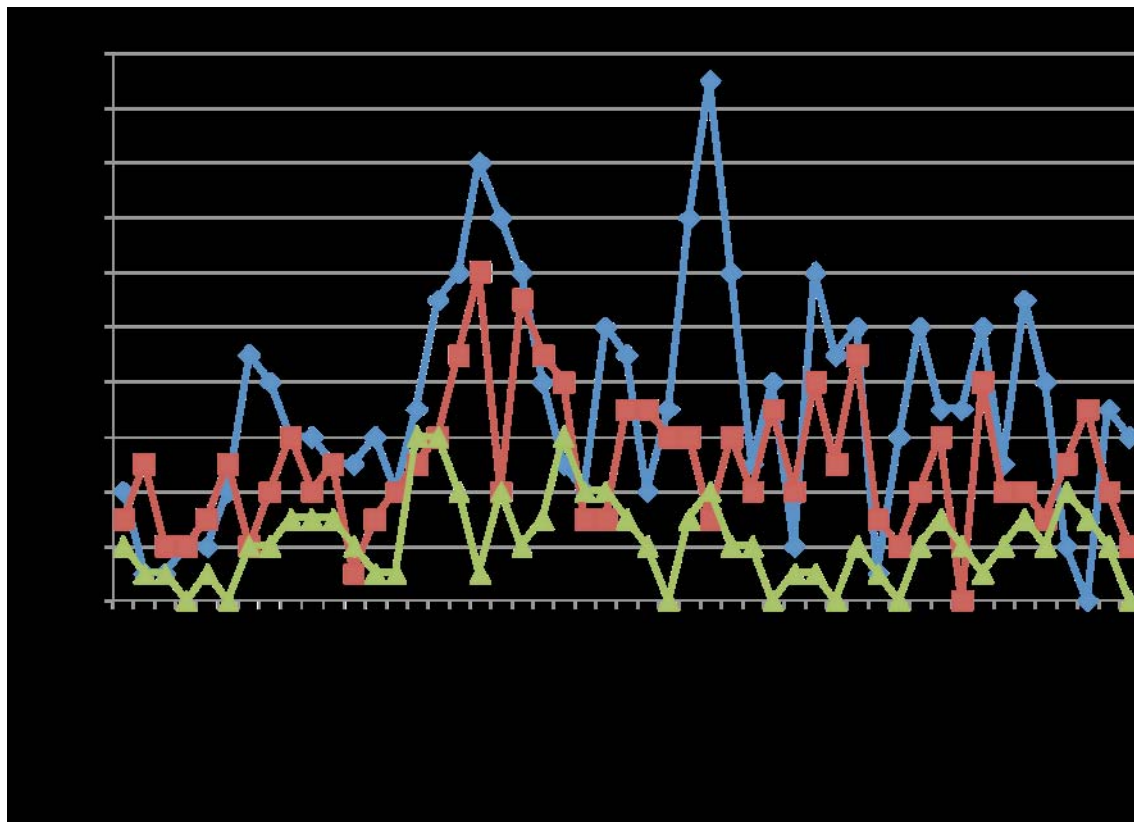
Increased Demand Enhanced Skills New & Emerging





WANTED
TECHNOLOGIES

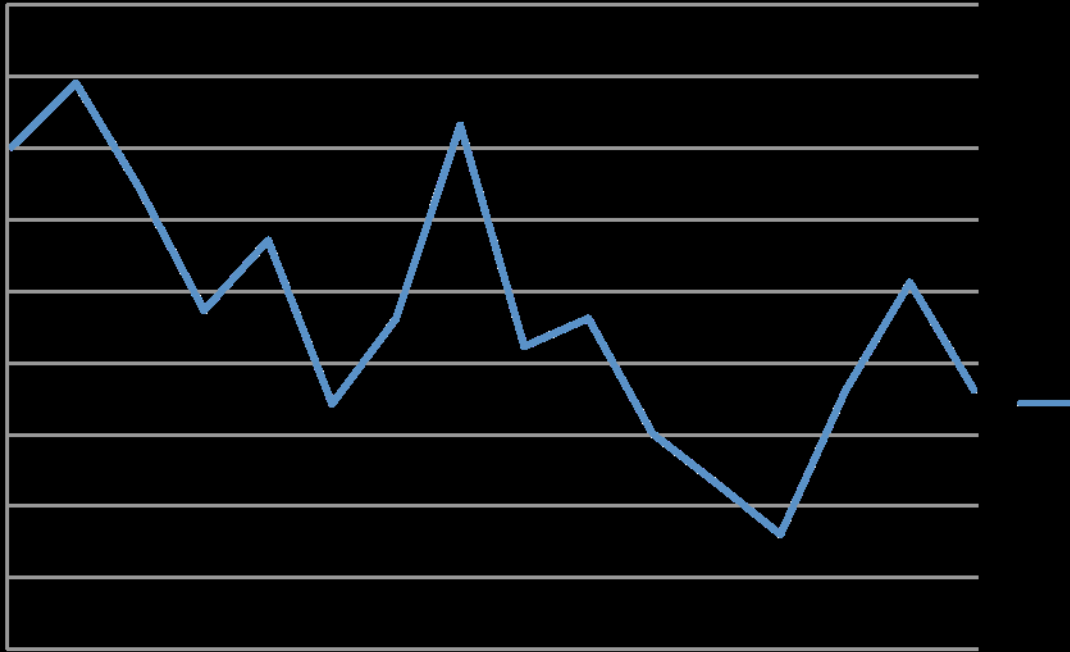
4 Year Trends in Monthly Job Postings for Environmental Engineers; Environmental Engineering Technicians; Environmental Scientists and Specialists, Including Health; Environmental Science and Protection Technicians, Including Health

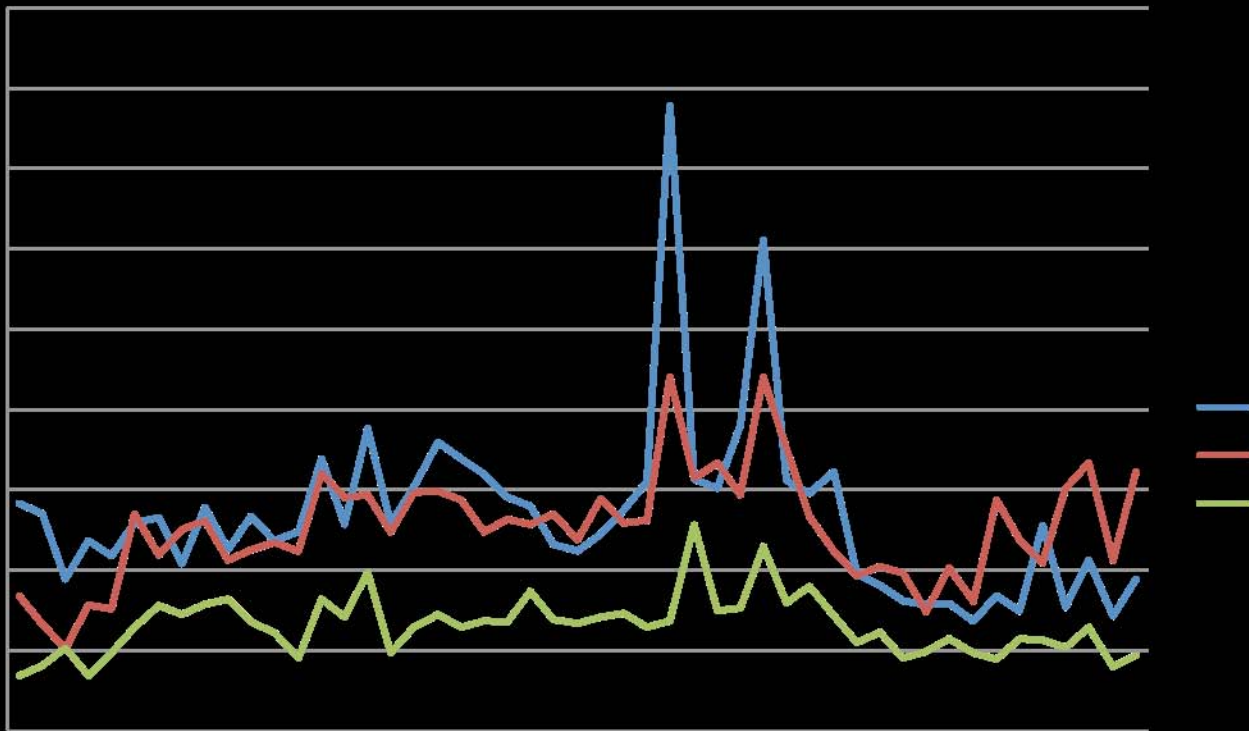


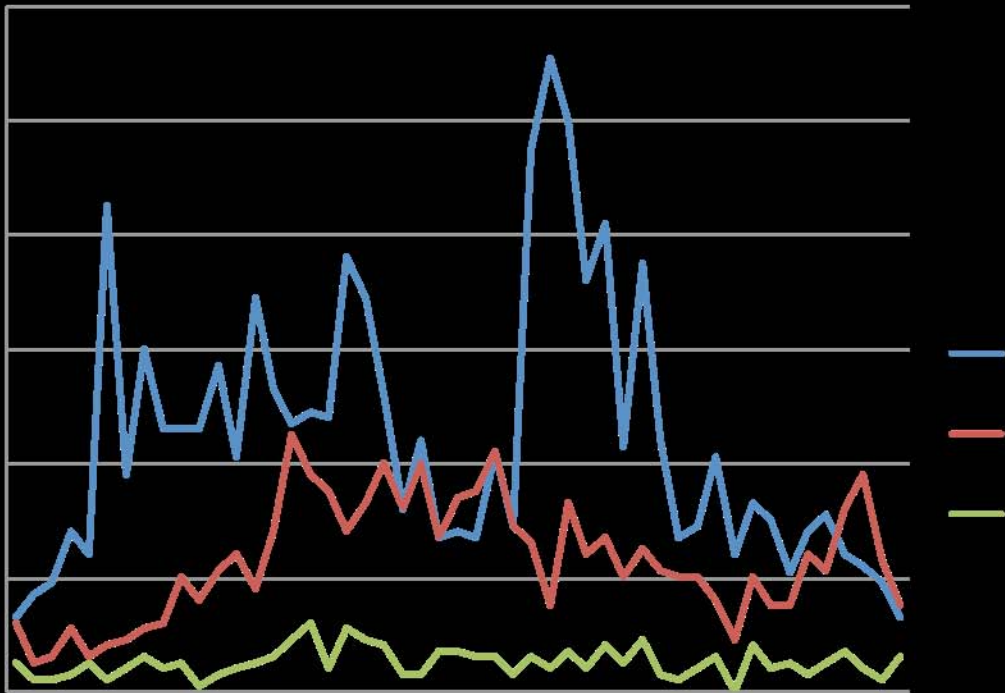
Environmental Engineers

Environmental Engineering Technicians

Environmental Scientists and Specialists,
Including Health;







Burning Glass

Technologies develops advanced solutions for matching candidates and jobs.

- Resume and job ad parsing solutions using artificial intelligence technologies to read, understand, and analyze unstructured resumes and job descriptions in most major document formats.
- Extracts more than one hundred facts with the highest accuracy in the industry, normalizes key data, translates skills to a standardized dictionary, and delivers output in readily searchable XML format or mapped to your specific database configuration.