Illinois Energy Careers

Graphs Summary

Employment and Wage Data provided by Illinois Pathways

July 2013
## Table of Contents

<table>
<thead>
<tr>
<th>Graphs</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest Paying Careers (by Median Annual Wage)</td>
<td>3</td>
</tr>
<tr>
<td>Existing Careers (Employment in 2010)</td>
<td>10</td>
</tr>
<tr>
<td>Fastest Growing Careers (Average Annual Job Openings due to Growth)</td>
<td>15</td>
</tr>
<tr>
<td>Careers by Increasing Employment (Employment Change in 2010)</td>
<td>20</td>
</tr>
<tr>
<td>Percentage Growth (Employment Percentage Change 2010-2020)</td>
<td>25</td>
</tr>
<tr>
<td>Replacement Careers (Annual Job Openings Due to Replacement)</td>
<td>30</td>
</tr>
<tr>
<td>Industries (With the Greatest Direct Employment Impacts)</td>
<td>37</td>
</tr>
<tr>
<td>Compensation (Average Direct Employment Compensation)</td>
<td>39</td>
</tr>
</tbody>
</table>
Highest Paying

By Median Annual Wage
Top 5 Highest Paying Careers

- Air Traffic Controllers
- Gen. & Operations Mgrs.
- Chemical Engineers
- Electrical Engineers
- Engineers, All Other

Median Annual Wage
Top 10 Highest Paying Careers

- Air Traffic Controllers
- Gen. & Operations Mgrs.
- Chemical Engineers
- Electrical Engineers, All Other
- Industrial Production Mgrs.
- Civil Engineers
- Computer Specialists, All Other
- Transportation, Storage & Distribution Mgrs.
- Mechanical Engineers

Median Annual Wage
Top 5 Highest Paying Careers with a Bachelor's Degree or Higher

- Gen. & Operations Mgrs.
- Chemical Engineers
- Electrical Engineers
- Engineers, All Other
- Civil Engineers

Median Annual Wage
Top 5 Highest Paying Careers with an Associate Degree or Postsecondary Vocational Award

- Computer Specialists, All Other
- Env. Science & Protection Techs
- Electro-Mechanical Technicians
- Civil Engineering Techs
- Electrical & Electronic Engineering Techs

Median Annual Wage
Top 5 Highest Paying Careers with On-The-Job-Training

- Air Traffic Controllers
- Industrial Production Mgrs.
- Transportation, Storage & Distribution Mgrs.
- Electricians
- Power Plant Operators

Median Annual Wage
Top 10 Highest Paying Careers with On-The-Job-Training
Existing Careers

Employment in 2010
Top 5 Existing Careers with a Bachelor's Degree or Higher

- Gen. & Operations Mgrs.
- Engineers, All Other
- Mechanical Engineers
- Industrial Engineers
- Civil Engineers

# Employment in 2010
Top 5 Existing Careers Employed
with an Associate Degree or Postsecondary Vocational Award

- Automotive Service Techs & Mechanics: 33,000 jobs in 2010
- Computer Specialists, All Other: 10,000 jobs in 2010
- Bus & Truck Mechanics & Diesel Eng Specialists: 7,000 jobs in 2010
- Electrical & Electronic Engineering Techs: 5,000 jobs in 2010
- Mobile Heavy Equipment Mechanics: 4,000 jobs in 2010
Top 5 Existing Careers Employed with On-The-Job-Training

- Truck Drivers, Heavy & Tractor Trailer
- Gen. Maint. & Repair Workers
- Construction Laborers
- Carpenters
- 1st-Line Svrs/Mgrs, Prod. & Operating Workers

Employment in 2010
Top 10 Existing Careers Employed with On-The-Job-Training

- Truck Drivers, Heavy & Tractor Trailers: 67,000
- General Maint. & Repair Workers: 46,000
- Construction Laborers: 47,000
- Carpenters: 39,000
- 1st-Line Svcs/Mgrs, Prod. & Operating Workers: 25,000
- Machinists: 19,000
- Electricians: 18,000
- Sales Reps, Wholesale/Mfg. Tech/Scientific Prods: 17,000
- Plumbers, Pipefitters & Steamfitters: 12,000
- Welders, Cutters, Solderers & Brazers: 7,000

Employment in 2010
Fastest Growing Careers

Average Annual Job Openings Due to Growth
Top 5 Fastest Growing Careers with a Bachelor's Degree or Higher

- Civil Engineers
- Mechanical Engineers
- Logisticians
- Industrial Engineers
- Engineers, All Other

Average Annual Job Openings due to Growth
Top 5 Fastest Growing Careers with an Associate Degree or Postsecondary Vocational Award

- Automotive Service Technicians & Mechanics
- Computer Specialists, All Other
- Bus & Truck Mechanics & Diesel Eng Specialists
- Mobile Heavy Equipment Mechanics
- Chemical Technicians

Average Annual Job Openings due to Growth
Top 5 Fastest Growing Careers with On-The-Job Training

- Truck Drivers, Heavy & Tractor Trailer: 600
- Construction Laborers: 500
- Gen. Maint. & Repair Workers: 400
- Carpenters: 200
- Industrial Machinery Mechanics: 100

*Average Annual Job Openings due to Growth*
Top 10 Fastest Growing Careers with On-The-Job-Training
Increasing Employment

Employment Change in 2010
Top 5 Careers by Increasing Employment with a Bachelor's Degree or Higher

- Civil Engineers
- Mechanical Engineers
- Logisticians
- Industrial Engineers
- Engineers, All Other

Employment Change in 2010
Top 5 Careers by Increasing Employment with an Associate Degree or Postsecondary Vocational Award
Top 5 Careers by Increasing Employment with On-The-Job-Training

- Truck Drivers, Heavy & Tractor Trailer
- Construction Laborers
- Gen. Maint. & Repair Workers
- Carpenters
- Industrial Machinery Mechanics

Employment Change 2010-2020
Top 10 Careers by Increasing Employment with On-The-Job-Training

- Truck Drivers, Heavy & Tractor Trailer
- Construction Laborers
- Gen. Maint. & Repair Workers
- Carpenters
- Industrial Machinery Mechanics
- Plumbers, Pipefitters & Steamfitters
- Heat, A/C & Refrigeration Mechanics & Installers
- Sales Reps, Wholesale/Mfg, Tech/Scientific Prods
- Electricians
- Computer-Controlled Machine Tool Operators

Employment Change 2010-2020
Percentage Growth

Employment Percentage Change
2010 - 2020
Top 5 Careers by Employed Percentage Growth with an Associate Degree or Postsecondary Vocational Award

- Env. Engineering Techs
- Mobile Heavy Equipment Mechanics
- Biological Technicians
- Chemical Techs
- Civil Engineering Techs

Employment Percentage Change 2010-2020
Top 5 Careers by Employed Percentage Growth with a Bachelor's Degree or Higher

- Mining and Geological Engineers
- Civil Engineers
- Logisticians
- Materials Scientists
- Env. Scientists & Specialists

Employment Percentage Change 2010-2020
Top 5 Careers by Employed Percentage Growth with On-The-Job-Training

- Heat, A/C & Refrigeration Mechanics & Installers
- Cost Estimators
- Industrial Machinery Mechanics
- Const. & Building Inspectors
- Computer-Controlled Machine Tool Operators

Employment Percentage Change 2010-2020
Top 10 Careers by Employed Percentage Growth with On-The-Job-Training

- Heat, A/C & Refrigeration Mechanics & Installers
- Cost Estimators
- Industrial Machinery Mechanics
- Const. & Building Inspectors
- Computer-Controlled Machine Tool Operators
- Refuse & Recyclable Material Collectors
- Glaziers
- Construction Laborers
- Truck Drivers, Heavy & Tractor-Trailer
- Helpers--Carpenters

Employment Percentage Change 2010-2020
Replacement Careers

Annual Job Openings
Due to Replacement
Top 5 Replacement Careers

- Gen. & Operations Mgrs.: 1400
- Truck Drivers, Heavy & TractorTrailer: 1200
- Gen. Maint. & Repair Workers: 900
- Carpenters: 600
- Automotive Service Techs & Mechanics: 500

*Annual Job Openings due to Replacement*
Top 10 Replacement Careers

- Gen. & Operations Managers
- Truck Drivers, Heavy & Tractor/Trailer
- Gen. Maint. & Repair Workers
- Carpenters
- Automotive Service Techs & Mechanics
- Electricians
- Plumbers, Pipefitters & Steamfitters
- Machinists
- Sales Reps, Wholesale/Mfg, Tech/Scientific Prods
- Construction Laborers

Annual Job Openings due to Replacement
Top 5 Replacement Careers with a Bachelor's Degree or Higher

- Gen. & Operations Mgrs.: 1400
- Mechanical Engineers: 200
- Engineers, All Other: 100
- Industrial Engineers: 50
- Civil Engineers: 50

Average Annual Job Openings due to Replacement
Top 5 Replacement Careers
with an Associate Degree or Postsecondary Vocational Award

- Automotive Service Techs & Mechanics
- Computer Specialists, All Other
- Bus & Truck Mechanics & Diesel Eng Specialists
- Electrical & Electronic Engineering Techs
- Mobile Heavy Equipment Mechanics

Legend:
- Average Annual Job Openings due to Replacement
Top 5 Replacement Careers with On-The-Job-Training

- Truck Drivers, Heavy & TractorTrailer: 1300
- Gen. Maint. & Repair Workers: 1000
- Carpenters: 800
- Electricians: 600
- Plumbers, Pipefitters & Steamfitters: 400

*Average Annual Job Openings due to Replacement*
Top 10 Replacement Careers with On-The-Job-Training

- Truck Drivers, Heavy & Tractor Trailer: 1300
- Gen. Maint. & Repair Workers: 800
- Carpenters: 700
- Electricians: 600
- Plumbers, Pipefitters & Steamfitters: 500
- Machinists: 400
- Sales Reps, Wholesale/Mfg, Tech/Scientific Prods: 300
- Const. Laborers: 200
- Welders, Cutters, Solderers & Brazers: 150
- 1st-Line Svrs/Mgrs, Mechanics & Installers: 100

Average Annual Job Openings due to Replacement
Industries

With the Greatest
Direct Employment Impacts
Industries with the Greatest Direct Employment Impacts

- Utilities: 21,000
- Oil & gas extraction: 7,000
- Mining: 4,000
- Petroleum & coal prod: 3,000
- Mining services: 2,000
- Chemical Manufacturing: 1,000
- Pipe transportation: 500
- Machinery Mfg: 100
Compensation

Average Direct
Employee Compensation
Average Direct Employee Compensation

- Petroleum & coal prod: Highest average wage
- Utilities: Second highest average wage
- Pipe transportation
- Mining
- Machinery Mfg
- Mining services: Lowest average wage