

LIFT Talent Research

High Demand Skill Profile: Industrial Technology Maintenance



INDUSTRIAL TECHNOLOGY

Demand for workers with industrial technology maintenance skills is growing quickly. These jobs entail the maintenance, troubleshooting and improvement of complex machines and automation systems that create efficient and productive manufacturing. The demand is particularly strong for companies in the automotive, aviation/aerospace, rail, ship and heavy truck industries, which have a strong presence in the I-75 corridor. To support the rapid deployment of new light weighting technologies, workers will have to understand and be confident in using the latest advanced technologies, help integrate them into companies' processes and maintain their performance over time. To respond to this significant maintenance workforce need, NIMS, Ivy Tech, and LIFT are partnering to build a high quality industrial maintenance workforce by expanding industry-based certifications and training programs across Indiana, Kentucky, Michigan, Ohio and Tennessee where demand for skilled industrial technology maintenance workers has grown 60% from 2011 to 2014.

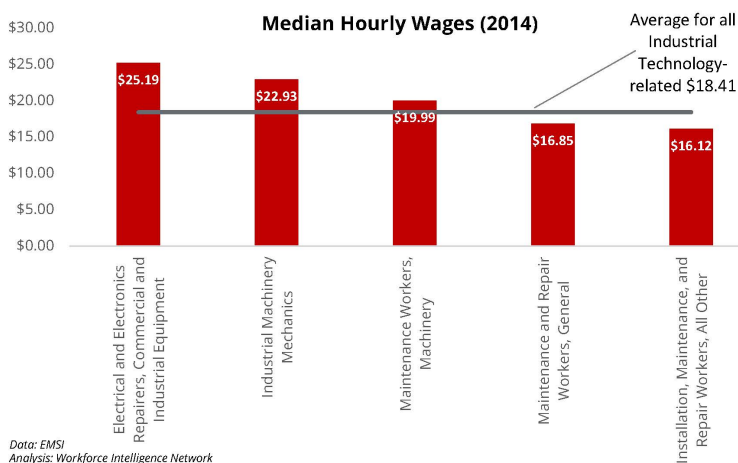
ECONOMIC OPPORTUNITY

All of the occupations requiring industrial technology maintenance skills offer a wage of over \$16 per hour. The average across all workers in these occupations is \$18.41, translating to an average salary of \$38,290. Industrial technology maintenance skills put students and workers on a clear path to career and economic success.

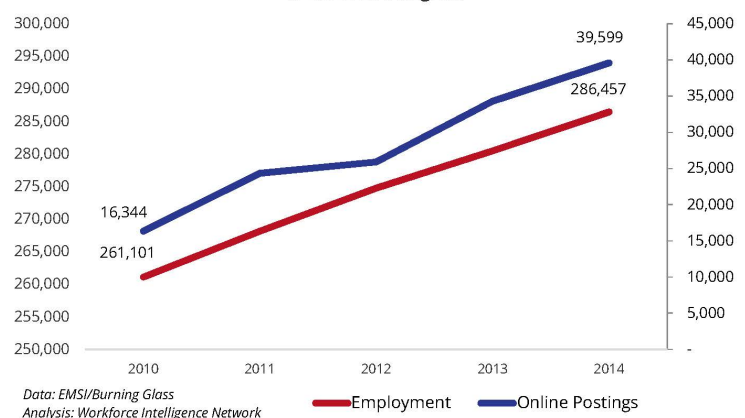
>\$25/hr
Median hourly wage for top industrial maintenance occupation in 5 state region, translates to \$52,000 a year

24,844 NEW JOBS SINCE 2010

With job growth and online postings following a strong linear upward trend, it is clear that more employers need workers with industrial technology maintenance skills. The concentration of these workers in the LIFT region* is 20% higher than the rest of the U.S. on average, due to the robust manufacturing sector in the region.



Industrial Technology-related Employment & Job Posting Growth (5 State LIFT Region)



ABOUT INDUSTRIAL TECHNOLOGY MAINTENANCE JOBS

Industrial technology maintenance represents a variety of high-tech jobs that include: maintaining, troubleshooting and improving complex machines and industrial systems, such as conveying systems, multi-axis machines, robotic welding arms, and hydraulic lifts. Industrial Machinery Mechanics earn a median hourly wage of over \$20.00 and typically require post-secondary training. Even with competitive wages, there are a minimal number of qualified candidates to fill these open employment opportunities.

Definitions: This data piece includes five primary occupations which likely require industrial technology maintenance skills. These include: Electrical and Electronics Repairers; Commercial and Industrial Equipment; Industrial Machinery Mechanics; Maintenance Workers, Machinery; Maintenance and Repair Workers, General; and Installation, Maintenance, and Repair Workers.

* Note: The LIFT region is defined as the five-state area including: Indiana, Kentucky, Michigan, Ohio and Tennessee.

TALENT PIPELINE

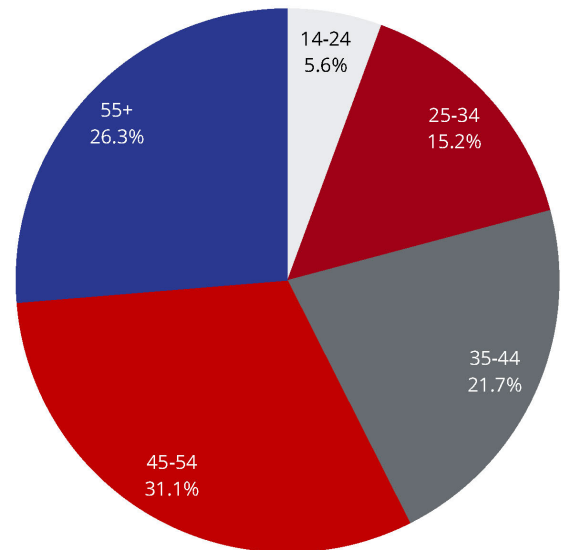
In 2014, there were 39,599 job postings for workers with industrial technology maintenance skills in the LIFT region and 283,295 nationally. This current demand will grow as the current workforce ages and companies look to fill vacant jobs due to retirements. With 26.3% of the industrial technology maintenance workforce over 55 and continuously growing employer demand, the region may need to fill an estimated 115,000 jobs over the next decade. This does not account for new jobs created as a result of innovations in light-weight materials use. Creating training programs that meet new industry standards will be key to ensuring the talent pipeline has the right skills and credentials.

Job Postings vs. Graduates* Related to Industrial Technology
(5 State LIFT Region, 2013-2014)



*Graduates includes all certificates and degrees as reported to IPEDS
Data: EMSI/Burning Glass
Analysis: Workforce Intelligence Network

Age of Workers with Industrial Maintenance Skills in 5 state LIFT Region, 2014



Data: EMSI
Analysis: Workforce Intelligence Network

115,000
workers
Projected jobs to be filled before 2025

ABOUT THE PARTNERS

NIMS The National Institute for Metalworking Skills (NIMS) is the developer of quality competency-based skills standards and credentials for jobs in manufacturing and related industries. Through these efforts, NIMS helps build and maintain a globally competitive workforce.
www.nimsready.org

LIFT Lightweight Innovations for Tomorrow (LIFT) is part of the National Network for Manufacturing Innovation and serves as the nation's essential bridge between basic research and final product commercialization for lightweight metals. The Institute's world-class facilities and technology development capabilities provide the "right" solutions for the nation's defense and commercial transportation sectors to promote American competitiveness, energy efficiency, defense readiness, and economic growth.
www.lift.technology

IVY TECH Ivy Tech Community College is Indiana's largest public postsecondary institution and the nation's largest singly accredited statewide community college system serving nearly 200,000 students annually. Ivy Tech has campuses throughout Indiana. It serves as the state's engine of workforce development, offering affordable degree programs and training that are aligned with the needs of its communities. In addition, its courses and programs transfer to other colleges and universities in Indiana. It is accredited by the Higher Learning Commission and is a member of the North Central Association.
www.ivytech.edu

