The Wisconsin K12 Labor Market Information Guide

Focusing on Data for 16 Career Clusters

2016-2026

WISCONSIN ACP Academic and Career Planning

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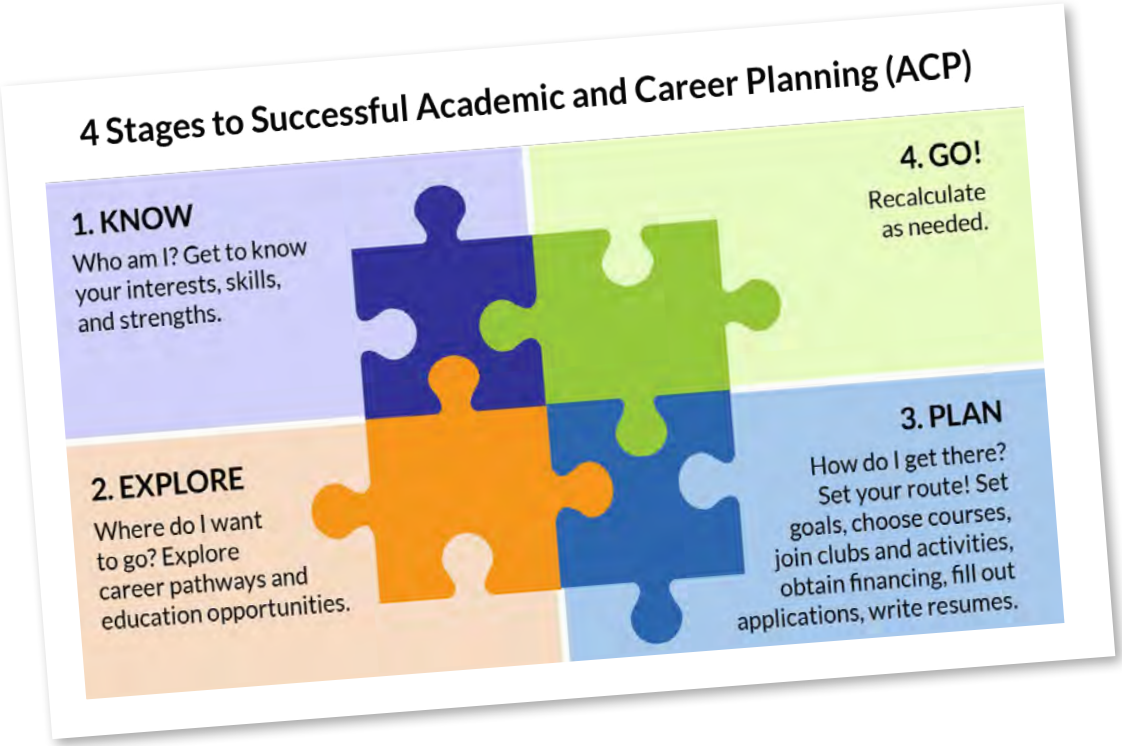
A Key Component in Career Planning

Students trying to decide on their future career have a daunting task. How can they narrow career options in a career landscape that is constantly shifting? Labor market information (LMI) can help:

- Connect career interests to jobs that will have future openings
- Keep students from making uninformed decisions that can lead to college debt
- Develop a career ladder that supports the lifestyle they hope for

In Wisconsin, Academic and Career Planning (ACP) provides a process to help students pursue any career area. ACP also offers a platform from which to introduce students to labor market information so that their decisions about career goals are informed and intentional.

This guide is designed to provide educators with a source for LMI that is easy to access and use with students.



A Vital Element in Developing Career Pathways

LMI is also vital to career and technical education (CTE) teachers in developing career pathways. Wisconsin's vision for CTE is to ensure ALL students have access to high quality CTE programs and career pathways.

Wisconsin's Perkins V State Plan clearly defines the five quality elements of a career pathway (see below) to be eligible for Perkins funding. It also requires that labor market information show the pathway is in demand. LMI can inform school districts which career pathways should be developed to address regional and state needs.

Five quality elements of a career pathway include:

1. A progressive sequence of CTE courses aligned to current labor market needs,
2. A work-based learning experience,
3. Attainment of an industry-recognized credential,
4. A related dual-credit college course,
5. Related Career and Technical Student Organization activities that align with pathway skills

State-endorsed Regional Career Pathways are LMI driven

In 2017, Wisconsin embarked on a pilot project to significantly increase the number of students who participated in career pathways. State-Endorsed Regional Career Pathways (SERCPs) were designed to do just that. SERCPs lead to jobs that are in demand and have good job opportunities at multiple skill levels. Local school districts in the region can use SERCPs as "ready-made" academic and career plans for students who want to pursue high-skill careers that are in demand regionally.

Go to https://dpi.wi.gov/pathways-wisconsin for more information and resources about State-Endorsed Regional Career Pathways.

This guide includes additional information on the skills, certifications, and student organizations for current State-Endorsed Regional Career Pathways in healthcare, construction, advanced manufacturing technology, and information technology.

This Wisconsin LMI Guide is Tailored to Educators

This guide provides an overview of Wisconsin labor market trends across the 16 Career Clusters (the nationally recognized organizational structure that groups careers with common features). Organizing LMI by Career Clusters makes it easier to use with students, and informs school districts about career pathway programs that they may be considering. For additional LMI resources for educators, go to https://dpi.wi.gov/cte/labor-market-information-lmi

Useful Terms and Phrases:

TOP 10 WI OCCUPATIONS WITH MOST PROJECTED JOB OPENINGS (2016-2026)
Job openings refer to a combination of both new jobs and jobs due to separations. Separations reflect people who are leaving the labor force or moving to a different occupation. Each cluster report highlights the top 10 jobs within the cluster that have the most annual total job openings. These are then organized by education type.

HIGHEST PAYING OCCUPATIONS IN WI
The median refers to the wage "in the middle." That is, half of the workers earned below this level. This is often considered more accurate than "average wages," which can be thrown off by extreme high or low numbers. Again, the top 10 are organized by education type.

HOT JOBS
Marked by a flame icon in the graphs, a hot job is projected to have high growth and also meet the following criteria:

- Median salary is above the state median
- Percentage change is greater than the state average
- Has the most projected openings

Sources: *Information is derived using May 2016 Occupational Employment Statistics (OES) Survey, annual data 2016 Quarterly Census of Employment and Wages (QCEW) and Current Employment Statistics (CES) data. Unpublished data from the United States Bureau of Labor Statistics, Current Population Survey (CPS) and United States Census Bureau. To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2016 to 2026. Wage estimates are from the Occupational Employment Statistics (OES) survey, May 2016.*

Unanticipated events may affect the accuracy of these projections.

How to Use this Guide with Students

1. **Help students see how labor market information could be useful to them**. LMI information is essential to help students consider the likelihood the jobs they are interested in will have openings and financially support the lifestyle they hope to have. However, let students know that just because a career isn't expected to be in demand in the future doesn't necessarily mean that it's career they should not pursue. It may just mean they need to think more critically about how to get the skills and connections to succeed in that career.

2. **Break down the different components of LMI**. Make sure students understand key definitions featured in this report, including career cluster, State-endorsed Regional Career Pathway, annual total openings, and annual median wage.

3. **Explore this guide with students and then use other resources to go deeper.** Start with having students identify careers or career clusters within this guide that they'd like to learn more about. Then use the following resources to research:

- Xello: https://xello.world/en/
- O'Net: https://www.onetonline.org/
- DPI's LMI website: https://dpi.wi.gov/cte/labor-market-information-lmi
- Wisconomy: https://jobcenterofwisconsin.com/wisconomy/

Career Cluster:

Agriculture, Food, and Natural Res

In this cluster workers produce, process, market, distribute, finance, and develop agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Farmworkers and Laborers (crop, nursery, and greenhouse)	$24,440.00	2,535
	Farmworkers (farm, ranch, and aquacultural animals)	$17,420.00	1,352
	Agricultural Equipment Operators	$32,190.00	334
	Refuse and Recyclable Material Collectors	$33,420.00	315
	Graders and Sorter (agricultural products)	$28,880.00	144
High school diploma or equivalent	Nonfarm Animal Caretakers	$18,850.00	943
	Water and Wastewater Treatment Plant and System Operators	$48,930.00	218
	Farm Equipment Mechanics and Service Technicians	$38,640.00	186
	First-Line Supervisors of Farming, Fishing, and Forestry Workers	$54,820.00	177
Bachelor's	Biological Technicians	$40,340.00	132

ources

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Farmers, Ranchers, and Other Agricultural Managers	$65,650.00	*
	Forest and Conservation Workers	$45,650.00	*
Bachelor's	Natural Science Managers	$98,790.00	52
	Environmental Engineers	$77,560.00	53
	Buyers and Purchasing Agents, Farm Products	$62,850.00	38
	Food Scientists and Technologists	$62,680.00	79
	Animal Scientists	$65,560.00	32
	Soil and Plant Scientists	$55,190.00	59
	Foresters	$52,550.00	41
	Zoologists and Wildlife Biologists	$51,510.00	36

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Career Cluster:
Architecture and Construction

In this cluster workers design, plan, manage, build and maintain the built environment.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Landscaping and Groundskeeping Workers	$24,440.00	2,535
	Construction Laborers	$38,890.00	2,049
High school diploma or equivalent	Carpenters	$45,930.00	2,077
	Electricians	$58,310.00	1,352
	First-Line Supervisors of Construction Trades and Extraction Workers	$65,710.00	979
	Plumbers, Pipefitters, and Steamfitters	$67,920.00	977
	Operating Engineers	$54,980.00	957
	Highway Maintenance Workers	$42,560.00	554
Post-Secondary Certificate	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	$47,520.00	590
Bachelor's	Cost Estimators	$56,970.00	627

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Pipelayers	$61,160.00	54
High school diploma or equivalent	Elevator Installers and Repairers	$76,980.00	50
	Control and Valve Installers and Repairers (Except Mechanical Door)	$75,740.00	45
	Electrical Power-Line Installers and Repairers	$74,100.00	162
	Structural Iron and Steel Workers	$68,050.00	127
	Plumbers, Pipefitters, and Steamfitters	$67,920.00	977
	First-Line Supervisors of Construction Trades and Extraction Workers	$65,710.00	979
Bachelor's	Construction Managers	$98,790.00	52
	Civil Engineers	$73,140.00	390
	Architects, Except Landscape and Naval	$70,010.00	107

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

State Endorsed Pathway:
Construction

In this pathway workers manage, build and maintain the built environment.

Academic Skills:

- Mechanical reasoning, problem solving, interpreting data, graph reading
- Physical Science and Applied Physics
- Environmental Science and Applied Chemistry
- Communication

Technical Skills:

- Understand the industry and skills needed
- Apply safety principles
- Understand and read construction drawings
- Know the tools and technologies in the industry

Certifications

- National Center for Construction Education and Research (NCCER)
- Career Connections/Level 3
- Woodwork Career Alliance: Sawblade
- North American Technician Alliance (NATE): HVAC support technician
- Commercial Driver's License
- Standard Driver's License
- OSHA 10
- OSHA 30 for Construction

Student Organizations

- SkillsUSA Wisconsin

For more information, check out https://dpi.wi.gov/pathways-wisconsin/construction

Career Cluster:
Arts, Audio Video, Technology, and

In this cluster workers design, produce, exhibit, perform, write, and publish multimedia content including visual and performing arts and design, journalism, and entertainment services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Printing Press Operators	$37,279.99	892
	Print Binding and Finishing Workers	$29,810.00	582
	Photographers	$34,980.00	232
Post-secondary certificate	Telecommunications Equipment Installers and Repairers, Except Line Install	$51,110.00	425
	Prepress Technicians and Workers	$48,040.00	182
Bachelor's	Graphic Designers	$45,760,00	613
	Writers and Authors	$42,590.00	207
	Editors	$41,540.00	179
	Technical Writers	$56,790.00	163
	Producers and Directors	$47,380.00	120

d Communications

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Artists and Related Workers, All Other	$60,530.00	23
High school diploma or equivalent	Choreographers	$63,090.00	*
Associate's	Broadcast Technicians	$53,110.00	87
Post-secondary certificate	Telecommunications Equipment Installers and Repairers, Except Line Install	$51,110.00	425
Bachelor's	Art Directors	$79,300.00	105
	Agents and Business Managers of Artists, Performers, and Athletes	$67,100.00	24
	Broadcast News Analysts	$62,880.00	8
	Commercial and Industrial Designers	$57,290.00	102
	Technical Writers	$56,790.00	163
	Music Directors and Composers	$53,100.00	60

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

Career Cluster:

Business, Management, and Admin

In this cluster workers plan, organize, direct and evaluate business functions essential to efficient and productive business operations.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Office Clerks, General	$32,680.00	10,925
	Customer Service Representatives	$34,610.00	7,828
	Stock Clerks and Order Fillers	$21,730.00	4,505
	First Line Supervisors of Office and Administrative Support Workers	$51,050.00	3,026
	Receptionists and Information Clerks	$27,350.00	2,823
	Secretaries and Administrative Assistants (except legal, medical, and executive)	$36,080.00	2,153
	Shipping, Receiving, and Traffic Clerks	$33,740.00	1,491
Some college, no degree	Bookkeeping, Accounting, and Auditing Clerks	$35,610.00	3,725
Bachelor's	General and Operations Managers	$94,980.00	3,436
	Business Operations Specialists, All Other	$59,020.00	1,424

nistration

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Bachelor's	Chief Executives	$115,930.00	333
	Computer and Information Systems Managers	$112,100.00	589
	Industrial Production Managers	$97,790.00	493
	Human Resources Managers	$97, 760.00	274
	Compensation and Benefit Managers	$95,900.00	39
	General and Operations Managers	$94,980.00	3,436
	Administrative Services Managers	$93,620.00	534
	Purchasing Managers	$92,670.00	132
	Training and Development Managers	$89,800.00	80
	Management Analysts	$72,020.00	1,221

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

Career Cluster:
Education and Training

In this cluster workers plan, manage and provide education and training services, and related learning support services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Self-Enrichment Education Teachers	$31,230.00	901
Some college, no degree	Teacher Assistants	$27,440.00	2,691
Associate's	Preschool Teachers (except Special Education)	$24,140.00	1,251
Bachelor's	Elementary School Teachers (except Special Education)	$54,530.00	2,360
	Secondary School Teachers (except Special and Career/Technical Education)	$55,800.00	1,714
	Coaches and Scouts	$24,560.00	1,294
	Middle School Teachers (except Special and Career/Technical Education)	$57,400.00	928
Master's or Equivalent	Educational, Guidance, School and Vocational Counselors	$48,350.00	576
Doctoral or Professional	Education Administrators (elementary and secondary school)	$95,290.00	389
	Health Specialities, Teachers, Postsecondary	$82,070.00	627

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Master's or Equivalent	Education Administrators (elementary and secondary school)	$95,290.00	389
	Education Administrators (postsecondary)	$94,790.00	318
Doctoral or Professional	Engineering Teachers (postsecondary)	$100,880.00	60
	Agricultural Sciences Teachers (postsecondary)	$96,850.00	22
	Law Teachers (postsecondary)	$95,230.00	14
	Economics Teachers (postsecondary)	$93,490.00	23
	Computer Science Teachers (postsecondary)	$79,510.00	49
	Nursing Instructors and Teachers (postsecondary)	$71,520.00	156
	Architecture Teachers (postsecondary)	$72,270.00	9
	Geography Teachers (postsecondary)	$69,660.00	10

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

Career Cluster: Finance

In this cluster workers plan and provide services for financial and investment planning, banking, insurance, and business financial management.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Tellers	$25,820.00	1,337
	Insurance Sales Agents	$54,360.00	1,084
	Insurance Claims and Policy Processing Clerks	$36,700.00	758
	Claims Adjusters, Examiners, and Investigators	$58,970.00	494
Bachelor's	Accountants and Auditors	$61,210.00	2,470
	Financial Managers	$110,420.00	1,005
	Loan Officers	$61,530.00	597
	Securities, Commodities, and Financial Service Sales Agents	$57,030.00	569
	Personal Financial Advisors	$75,000.00	562
	Financial Analysts	$69,480.00	487

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Post-secondary certificate	Insurance Appraisers (auto damage)	$64,790.00	7
Bachelor's	Financial Managers	$110,420.00	1,005
	Actuaries	$81,300.00	57
	Personal Financial Advisors	$75,000.00	562
	Budget Analysts	$69,780.00	73
	Financial Analysts	$69,480.00	487
	Loan Officers	$61,530.00	597
	Accountants and Auditors	$61,210.00	2,470
	Insurance Underwriters	$61,110.00	185
	Credit Analysts	$59,320.00	147

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

Career Cluster:
Government and Public Administr

In this cluster workers perform governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026))

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Court, Municipal, and License Clerks	$25,640.00	265
	Construction and Building Inspectors	$55,900.00	130
	Eligibility Interviewers, Government Programs	$42,550.00	112
Bachelor's	Compliance Officers	$57,080.00	369
	Legislators	$18,830.00	120
	Financial Examiners	$69,290.00	106
	Appraisers and Assessors of Real Estate	$59,060.00	96
	Occupational Health and Safety Specialists	$61,610.00	68
	Agricultural Inspectors	$44,220.00	48
Master's or Equivalent	Urban and Regional Planners	$63,750.00	46

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Transportation Inspectors	$83,680.00	8
	Postmasters and Mail Superintendents	$72,330.00	18
	Construction and Building Inspectors	$55,900.00	130
Bachelor's	Financial Examiners	$69,290.00	106
	Emergency Management Directors	$66,660.00	12
	Occupational Health and Safety Specialists	$61,610.00	68
	Appraisers and Assessors of Real Estate	$59,060.00	96
	Compliance Officers	$57,080.00	369
	Tax Examiners and Collectors, and Revenue Agents	$56,840.00	35
Master's or Equivalent	Urban and Regional Planners	$63,750.00	46

Wages from the Occupational Employment Statistics, estimates from May 2016.

Career Cluster:
Health Science

In this cluster workers plan, manage, and provide therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Home Health Aides	$24,860.00	1,182
	Medical Secretaries	$35,130.00	817
	Pharmacy Technicians	$30,580.00	638
Post-secondary certificate	Nursing Assistants	$27,500.00	3,983
	Medical Assistants	$34,000.00	1,560
	Dental Assistants	$37,220.00	704
	Licensed Practical and Licensed Vocational Nurses	$44,040.00	600
Associate's	Dental Hygienist	$64,170.00	364
Bachelor's	Registered Nurses	$66,430.00	3,473
	Medical and Health Services Managers	$89,450.00	750

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Master's or Equivalent	Nurse Anesthetists	$186,470.00	32
	Physician Assistants	$98,420.00	152
	Nurse Midwives	$98,300.00	*
	Nurse Practitioners	$96,910.00	185
	Orthotists and Prosthetists	$73,700.00	*
Doctoral or Professional	Pediatricians, General	$200,340.00	7
	Dentists, General	$193,670.00	93
	Psychiatrists	$190,930.00	13
	Dentists, All Other Specialities	$185, 010.00	5
	Pharmacists	$126,300.00	249

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

State-Endorsed Pathway
Patient Care

In this pathway workers plan, manage, and provide therapeutic services, diagnostic services, and support services, including behavioral health.

Academic Skills:

- Human Anatomy and Physiology
- Diseases and Disorders
- Applied Chemistry
- Communication

Technical Skills:

- Understand healthcare careers
- Apply safety principles
- Practice legal and ethical behaviors
- Know the tools and technologies in the healthcare industry

Certifications

- Certified Nursing Assistant
- Basic Life Support (AHA) or Professional Rescuer (ARC)
- Feeding Assistant (DHS)
- Medication Aide/Assistant (DHS)
- Emergency Medical Responder (NREMT)
- Medical Assistant (AAMA,AMT, NHA)

Student Organizations

- Wisconsin HOSA (Future Health Professionals)

For more information, check out https://dpi.wi.gov/pathways-wisconsin/healthcare

Career Cluster:
Hospitality and Tourism

In this cluster workers manage, market and operate restaurants and other food services, lodging, attractions, recreation events and travel related services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Combined Food Preparation and Serving Workers (including fast food workers)	$18,380.00	14,076
	Waiters and Waitresses	$18,850.00	9,314
	Janitors and Cleaners (except maids and housekeeping cleaners)	$23,640.00	6,418
	Bartenders	$19,100.00	5,057
	Cooks (restaurant)	$23,480.00	3,338
	Maids and Housekeeping Cleaners	$20,790.00	3,043
	Food Preparation Workers	$19,840.00	2,094
	Dishwashers	$18,450.00	1,718
High school diploma or equivalent	Recreation Workers	$21,590.00	2,645
	First-Line Supervisors of Food Preparation and Serving Workers	$27,480.00	2,220

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Athletes and Sports Competitors	$39,100.00	*
High school diploma or equivalent	Gaming Managers	$60,980.00	*
	Lodging Managers	$53,410.00	80
	Food Service Managers	$43,970.00	906
	Gaming Supervisors	$42,630.00	69
	Chefs and Head Cooks	$42,340.00	295
	First-Line Supervisors of Housekeeping and Janitorial Workers	$38,020.00	452
	Travel Guides	$35,040.00	*
	Travel Agents	$33,880.00	61
	Umpires, Referees, and Other Sports Officials	$32,130.00	91

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

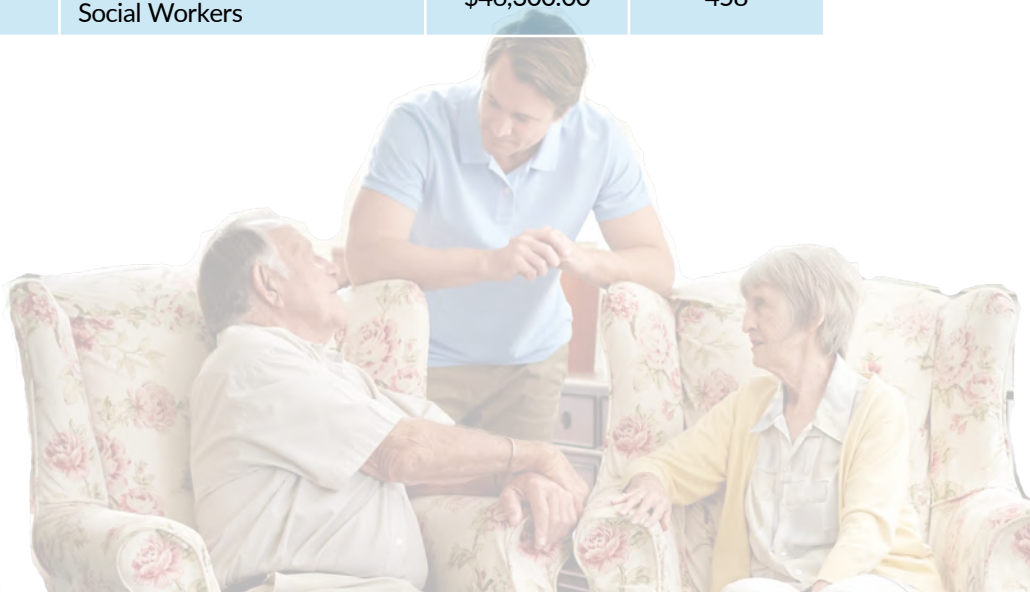
Hot Jobs

Career Cluster:
Human Services

In this cluster workers prepare individuals for employment in careers that relate to families and human needs such as counseling and mental health services, family and community services, personal care and consumer services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026))

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Laundry and Dry-Cleaning Workers	$21,050.00	496
High school diploma or equivalent	Personal Care Aides	$22,430.00	12,234
	Childcare Workers	$20,350.00	2,500
	Fitness Trainers and Aerobics Instructors	$28,610.00	2,114
	Social and Human Service Assistants	$31,610.00	1,867
	First-Line Supervisors of Personal Service Workers	$35,410.00	776
	Residential Advisors	$24,760.00	499
Post-secondary certificate	Hairdressers, Hairstylists, and Cosmetologists	$24, 350.00	2,038
Bachelor's	Social and Community Service Managers	$60,380.00	480
	Child, Family, and School Social Workers	$46,300.00	458



Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Associate's	Funeral Service Managers	$90,220.00	15
	Morticians, Undertakers, and Funeral Directors	$58,220.00	119
Bachelor's	Social and Community Service Managers	$60,380.00	480
	Social Workers, All Other	$60,090.00	101
	Health Educators	$53,450.00	238
	Clergy	$47,310.00	94
	Child, Family, and School Social Workers	$46,300.00	458
Master's or Equivalent	Psychologists, All Other	$90.350.00	13
	Healthcare Social Workers	$50,370.00	344
Doctoral or Professional	Clinical, Counseling, and School Psychologists	$72,770.00	203

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

Career Cluster:
Information Technology

In this cluster workers design, develop, support and manage Hardware, Software, Multimedia, and Systems Integration Services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Some college, no degree	Computer User Support Specialists	$47,170.00	976
Associate's	Computer Network Support Specialists	$58,850.00	391
	Web Developers	$48,600.00	239
Bachelor's	Software Development Applications	$81,160.00	1,251
	Computer Systems Analysts	$75,430.00	1,216
	Network and Computer Systems Administrators	$68,460.00	495
	Computer Programmers	$69,360.00	456
	Software Developers, Systems Software	$84,190.00	279
	Computer Occupations, All Other	$67,960.00	234
	Computer Network Architects	$92,070.00	197

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Associate's	Computer Network Support Specialists	$58,850.00	391
Bachelor's	Computer Network Architects	$92,070.00	197
	Software Developers, Systems Software	$84,190.00	279
	Software Development Applications	$81,160.00	1,251
	Information Security Analysts	$76,930.00	*
	Database Administrators	$75,910.00	164
	Computer Systems Analysts	$75,430.00	1,216
	Computer Programmers	$69,360.00	456
	Network and Computer Systems Administrators	$68,460.00	495
	Computer Occupations, All Other	$67,960.00	234

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

State-Endorsed Pathway:
Information Technology

In this pathway workers design, develop, support and manage Hardware, Software, Multimedia, and Systems Integration Services, including Cybersecurity.

Academic Skills:

- Understand relationships between numbers
- Calculate averages, ratios, proportions, and rates
- Use and report measurements correctly
- Use appropriate mathematical formulas
- Use basic statistics
- Apply the scientific method
- Understand basics of data, data movement, and data storage
- Communication

Technical Skills:

- Role of technology in business
- Security
- Hardware
- Data: applications, databases, and storage skills
- Systems, infrastructures, and wireless skills
- Software and programming
- User support
- Technology security

Certifications

- Microsoft or Certiport
  - Office Specialist (MOS)
  - Technology Associate (MTA)
  - .NET
- Cisco
- IT Essentials
  - Certified Entry Networking Technician (CCENT)
  - Certified Network Associate (CCNA)
  - Certified Technician (CCT)
- COMP TIA
- Fundamentals
  - A+ *
  - SEC+
  - NET+
- Java
- LINUX- Essentials
- Oracle Certified Junior Associate or higher

Student Organizations

- Future Business Leaders of America (FBLA)
- First Robotics

For more information, check out: https://dpi.wi.gov/pathways-wisconsin/technology

Career Cluster:
Law, Public Safety, Corrections, an

In this cluster workers plan, manage, and provide legal, public safety, protective services and homeland security, including professional and technical support services.

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	$18,790.00	1,686
	Crossing Guards	$27,160.00	216
High school diploma or equivalent	Security Guards	$24,690.00	1,513
	Police and Sheriff's Patrol Officers	$59,390.00	859
	Correctional Officers and Jailers	$42,250.00	470
	Protective Service Workers, All Other	$26,550.00	326
Post-secondary certificate	Firefighter	$31,700.00	684
	Emergency Medical Technicians and Paramedics	$29,240.00	405
Associate's	Paralegals	$46,230.00	516
Doctoral or Professional	Lawyers	$91,790.00	447

d Security

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	First-Line Supervisors of Police and Detectives	$78,630.00	118
	Detectives and Criminal Investigators	$71,560.00	88
	First-Line Supervisors of Correctional Officers	$63,290.00	45
	Police and Sheriff's Patrol Officers	$59,390.00	859
Post-secondary certificate	First-Line Supervisors of Fire Fighting and Prevention Workers	$71,620.00	69
	Fire Inspectors and Investigators	$57,000.00	*
Bachelor's	Arbitrators, Mediators, and Conciliators	$55,550.00	8
Doctoral or Professional	Administrative Law Judges, Adjudicators, and Hearing Officers	$101,990.00	279
	Judges, Magistrate Judges, and Magistrates	$92,620.00	7
	Lawyers	$91,790.00	447

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

Career Cluster:
Manufacturing

In this cluster workers plan, manage, and perform the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Team Assemblers	$29,910.00	3,607
	Maintenance and Repair Workers (general)	$38,280.00	3,431
	First-Line Supervisors of Production and Operating Workers	$56,420.00	2,192
	Helpers (production workers)	$27,830.00	2,173
	Packaging and Filling Machine Operators and Tenders	$31,770.00	1,745
	Welders, Cutters, Solderers, and Brazers	$40,820.00	1,679
	Machinists	$41,670.00	1,553
	Inspectors, Testers, Sorters, Samplers, and Weighters	$37,480.00	1,502
	Electrical and Electronic Equipment Assemblers	$29,240.00	1,211
	Food Batchmakers	$33,810.00	1,169

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Power Distributors and Dispatchers	$90,630.00	3
	Gas Plant Operators	$90,490.00	8
	Petroleum Pump System Operators, Refinery Operators, and Gaugers	$73,040.00	12
	Power Plant Operators	$72,170.00	58
	Camera and Photographic Equipment Repairers	$72,080.00	*
	Chemical Plant and System Operators	$65,410.00	*
	First-Line Supervisors of Mechanics, Installers, and Repairers	$62,770.00	763
	Patternmakers (wood)	$61,790.00	*
Post-Secondary Certificate	Electrical and Electronic Repairers (powerhouse, substation, and relay)	$76,210.00	11
Associate's	Engineering Technician (except drafters, all other)	$56,900.00	130

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

State Endorsed Pathway:
Advanced Manufacturing

In this pathway workers plan, manage, and perform the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering using advanced technology.

Academic Skills:

- Math concepts
- Literacy and communication
- Basic computer skills
- Information and analytical thinking

Technical Skills:

- Manufacturing process and production
- Lean manufacturing/continuous improvement
- Production materials
- Precision measurement
- Manual Tools and Equipment Operations
- Basic Automated systems and Control Operations
- Maintenance, installation, and repair
- Health, safety, security, and environment
- Mechatronics
- Connectivity and networking
- Inform-Actionable Data
- Math-based and Model-based Engineering

Certifications

- American Welding Society (AWS)
  - Level 1: Entry Welder
- Certified Solidworks Associate
- Lean Six Sigma (ASQ)
- Manufacturing Skills Standards Council (MSSC)
  - Certified Production Technician (CPT)
- NC3 Industry 4.0 and Mechatronics
- OSHA 10 -General Industry Version
- National Institute for Metalworking Skills (NIMS)
  - Industrial Technology Maintenance Level 1
  - Machining Level I
  - Metalforming Level I
- Smart Automation Certification Alliance (SACA)
  - Associate level
- Snap On
  - Precision Measurement Instruments Certification
  - Multimeter
  - Mechanical and Electronic TorqueCertification
- The Association for Packaging and ProcessingTechnologies (PMMI) Mechatronics Certification

Student Organizations

- First Robotics
- Wisconsin SkillsUSA

For more information, check out: https://dpi.wi.gov/pathways-wisconsin/manufacturing

Career Cluster:
Marketing, Sales, and Service

In this cluster workers plan, manage, and perform marketing activities to reach organizational objectives.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Retail salesperson	$21,060.00	13,320
	Cashiers	$19,080.00	11,363
	Counter and Rental Clerks	$24,580.00	1,189
High school diploma or equivalent	Sales Representatives, Wholesale and Manufacturing (except technical and scientific)	$59,410.00	5,280
	First-Line Supervisors of Retail Sales Workers	$36,750.00	2,307
	Sales Representatives, Services, All Other	$49,220.00	1,934
	Driver/Sales Workers	$25,070.00	964
	First-Line Supervisors of Non-Retail Sales Workers	$76, 580.00	938
Bachelor's	Market Research Analysts and Marketing Specialists	$52,230.00	1,595
	Public Relations Specialists	$52,270.00	855

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	First-Line Supervisors of Non-Retail Sales Workers	$76,580.00	938
	Sales Representatives, Wholesale and Manufacturing (except technical and scientific)	$59,410.00	5,280
	Real Estate Broker	$55,690.00	84
Bachelor's	Sales Managers	$115,620.00	657
	Marketing Managers	$107,850.00	369
	Advertising and Promotions Managers	$98.850.00	37
	Sales Engineers	$91,060.00	148
	Public Relations and Fundraising Managers	$90,250.00	142
	Sales Representatives, Wholesale and Manufacturing (Technical and Scientific)	$75,370.00	548
	Public Relations Specialists	$52,270.00	855

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs

Career Cluster:
Science, Technology, Engineering, M

In this cluster workers plan, manage, and provide scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Associate's Degree	Life, Physical, and Soil Science Technicians (all other)	$42,740.00	125
Bachelor's	Mechanical Engineers	$72,830.00	716
	Industrial Engineers	$73,620.00	714
	Electrical Engineers	$81,090.00	430
	Architectural and Engineering Managers	$112,630.00	298
	Chemists	$62,590.00	281
	Engineers (all other)	$81,210.00	163
	Electronics Engineers (except computer)	$80,180.00	128
	Environmental Scientists and Specialists (including health)	$58,510.00	128
	Conservation Scientists	$62,650.00	89

Math

Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
Bachelor's	Architectural and Engineering Managers	$112,630.00	298
	Life Scientists (all others)	$108,390.00	*
	Atmospheric and Space Scientists	$93,650.00	9
	Nuclear Engineers	$92,500	*
	Chemical Engineers	$89,890.00	58
	Engineers (all other)	$81,210.00	163
	Electrical Engineers	$81,090.00	430
	Electronics Engineers (except computer)	$80,180.00	128
	Materials Scientists	$79,740.00	*
Doctoral or Professional	Physicists	$80,130.00	32

Wages from the Occupational Employment Statistics, estimates from May 2016.

** Not enough data available to provide specific information*

Hot Jobs

Career Cluster:

Transportation, Distribution, and Lo

In this cluster workers plan, manage, and move people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Top 10 WI Occupations with Most Projected Job Openings (2016-2026)

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
No formal educational credential	Laborers and Freight, Stock, and Material Movers, Hand	$30,020.00	8,122
	Packers and Packagers	$25,590.00	3,255
	Industrial Truck and Tractor Operators	$34,710.00	1,456
	Taxi Drivers and Chauffeurs	$22,030.00	1,022
	Cleaners of Vehicles and Equipment	$24,760.00	1,005
High school diploma or equivalent	Light Truck or Delivery Services Drivers	$27,770.00	2,256
	Bus Drivers, School or Special Client	$31,650.00	1,333
	Billing and Posting Clerks	$36,080.00	923
Post-secondary certificate	Heavy and Tractor-Trailer Truck Drivers	$40,550.00	6,159
	Automotive Service Technicians and Mechanics	$37,490.00	1,267

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Highest Paying Occupations in WI

Education Needed	Occupation	Annual Median Wage	Annual Total Job Openings
High school diploma or equivalent	Transportation, Storage, and Distribution Managers	$84,870.00	227
	Commercial Pilots	$73,690.00	44
	Signal and Track Switch Repairers	$66,970.00	11
	Locomotive Engineers	$64,320.00	31
	Railroad Brake, Signal, and Switch Operators	$60,470.00	8
	Railroad Conductors and Yardmasters	$60,020.00	28
	Rail Car Repairers	$58,930.00	10
Associate's	Air Traffic Controllers	$102,710.00	16
Bachelor's	Airline Pilots, Copilots, and Flight Engineers	$98,520.00	7
	Logisticians	$57,870.00	278

Wages from the Occupational Employment Statistics, estimates from May 2016.

Hot Jobs