

Manufacturing Fast Facts

<i>2005 Statistics</i>	<i>Central PA</i>	<i>Pennsylvania</i>
Number of Businesses	500	12,500
Number of Jobs	32,200	523,300
Average Wage	\$37,843	\$47,975
% of Total Region/State Employment	13%	9%

The Diversified Manufacturing Industry is expected to decline by 4,600 jobs between 2004 and 2014 in the Central Region. However, that doesn't mean that jobs will not be available.

All jobs in the Central Region are expected to grow by 4.5% between 2004 and 2014. Production Occupations are expected to decline by 8.7%. Almost 100% of the job opportunities will be due to **replacements** as individuals retire or leave the workforce. The skills needed by replacement workers will be high tech and diverse.

Why the Changing Face of Manufacturing?

Global competition for quality products produced at the lowest cost.

Increased technology equals increased productivity which may lead to fewer jobs.

Demographics are shifting. The National Association of Manufacturers estimates the need for 10 million skilled workers by 2020.

Diversified Manufacturing Occupations with Greatest Projected Demand in Volume in the Central Region

- Team Assemblers *
- First-Line Supervisors of Production & Operating Workers *
- Helpers-Production Workers *
- Inspectors, Testers, Sorters, Samplers, & Weighers *
- Production Workers, All Other *
- Packaging & Filling Machine Operators *

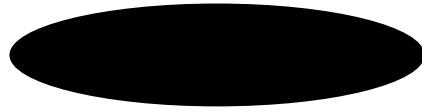
* Employment can be obtained with training 2 years or less.

Manufacture What?

The Central Region offers opportunities to work in a variety of types of manufacturing, including:

- * Food Processing
- * Printing
- * Chemicals / Pharmaceuticals
- * Plastics
- * Metals
- * Electronics
- * Transportation Equipment
- * Lumber and Wood
- * Food Preparation Workers
- * Maintenance Repairers
- * Computer Specialists

Manufacturing Career Information



National Occupational Outlook Handbook

<http://www.bls.gov/oco/home.htm>

National Association of Manufacturers

<http://www.nam.org/>

Pennsylvania's Heartland

<http://www.pennsylvaniasheartland.com>

America's Career InfoNet

<http://www.acinet.org/acinet/>

O Net

<http://online.onetcenter.org>

Manufacturing Career Guide

<http://www.khake.com/page40.html>

Manufacturing is Cool

<http://www.manufacturingiscool.com/cgi-bin/mfgcoolhtml.pl?/careerinfo.htm&>

Dream It, Do It

<http://www.dreamit-doit.com/>

Don't Want to Work in Production?

Manufacturing offers many opportunities for individuals not working on the production floor. You can be valuable to the industry through careers in:

- * Administration and Management
- * Financial and Personnel Management
- * Customer Service
- * Information Technology
- * Engineering
- * Transportation and Logistics

Sample Manufacturing Training Providers

- Central Pennsylvania Institute of Technology
- Harrisburg Area Community College
- Keystone Central Career and Technology Center
- Lock Haven University
- Luzerne County Community College
- Pennsylvania College of Technology
- Penn State University
- SUN Area Career and Technical Center
- Triangle Tech

Important Manufacturing Skills: Equipment maintenance; Machinery Monitoring; Manual dexterity; Product inspection; Machinery Operation.

Key Areas of Manufacturing Knowledge: Engineering; Mathematics; Physics; Mechanical.

For more information on manufacturing careers, contact your guidance counselor and/or the Pennsylvania CareerLink,
www.pacareerlink.state.pa.us



Central Pennsylvania Workforce Development Corporation, 1610 Industrial Blvd., Suite 500 A, Lewisburg, PA 17837

Education Fast Facts

2005 Statistics	Central PA	Pennsylvania
Number of Businesses	900	21,900
Number of Jobs	41,000	678,400
Average Wage	\$39,225	\$43,524
% of Total Region/State Employment	17%	12%

The Education Industry is expected to grow by 7,950 jobs between 2004 and 2014 in the Central Region. This is faster than the average industry in the area and faster than the Education Industry across the state of Pennsylvania!

All jobs in the Central Region are expected to grow by 4.5% between 2004 and 2014. Education Occupations are expected to grow about 8.8%. The demand for *postsecondary teachers* (like professors) is projected to grow by 11%. The demand for *primary and secondary teachers* is expected to grow by 3.4%. Nearly a third of the education demand will be due to *growth*.

Why such growth?

Teachers are *retiring* and need to be replaced.

Education is in demand. 1 out of 4 Americans is enrolled in education.

More students are *graduating from high school* in 2008 than ever before.

Federal mandates like No Child Left Behind *increase standards* for educational services.

Education Occupations with Greatest Projected Demand in Volume in the Central Region

- Elementary School Teachers, Except Special Education
- Teacher Assistants *
- Secondary School Teachers, Except Special & Vocational Education
- Middle School Teachers, Except Special & Vocational Education
- Postsecondary Teachers, All Other

* Employment can be obtained with training 2 years or less.

Work Where?

The Education industry offers opportunities for you to work in a variety of settings.

Some positions offer flexible hours or non-year round work. Some places you may find employment include:

- * Schools
- * Colleges and Universities
- * Day Care Centers

Don't Want to Teach?

While teachers make up over half of occupational opportunities in the Education Cluster, there are jobs for

- * Bus Drivers
- * Secretaries
- * Food Preparation Workers
- * Maintenance Repairers
- * Computer Specialists

Education Career Information

National Occupational Outlook Handbook

<http://www.bls.gov/oco/home.htm>

Pennsylvania Department of Education

<http://www.pde.state.pa.us>

National Education Association

<http://www.nea.org>

Pennsylvania's Heartland

<http://www.pennsylvaniasheartland.com>

America's Career InfoNet

<http://www.acinet.org/acinet/>

K-12 Teaching Jobs

http://k12jobs.com/template_index.php

O Net

<http://online.onetcenter.org>

National Teacher Recruitment Clearinghouse

<http://www.rnt.org/>

Why Consider a Career in Education?

- **Job security** – there's a national commitment to providing publicly funded education for all children
- **Family sustaining wages**
- **Personal satisfaction of helping others**
- **Continuing education** – teachers are required to keep their education current by participating in continuing education activities.
- **Advancement potential** – administrative and leadership opportunities within the educational system usually require a teaching background plus additional training.

Sample Education Training Providers

- Bloomsburg University
- Bucknell University
- Lock Haven University
- Lycoming College
- Pennsylvania College of Technology
- Penn State University
- Susquehanna University

Important Education Skills: Instructing; Monitoring; Speaking; Teaching Strategies; Reasoning

Key Areas of Education Knowledge: Education and training; English language; Psychology; Sociology; Therapy and counseling

For more information on education careers, contact your guidance counselor and/or the Pennsylvania CareerLink, www.pacareerlink.state.pa.us



Health Care Fast Facts

2005 Statistics	Central PA	Pennsylvania
Number of Businesses	1,400	33,600
Number of Jobs	34,100	861,400
Average Wage	\$37,686	\$42,490
% of Total Region/State Employment	14%	16%

The Health Services Industry is expected to grow by over 3,300 jobs between 2004 and 2014 in the Central Region. This is faster than the average industry in the area!

All jobs in the Central Region are expected to grow by 4.5% between 2004 and 2014. Health care Occupations will grow by double the average for the Central Region. The demand for **health diagnosing & treating practitioners** (like doctors, pharmacists, and therapists) is projected to grow by 5.9%. The demand for **health technologists & technicians** is expected to grow by 14.1%. About a third of the health care demand will be caused by the creation of **new jobs**.

Why such growth?

The population is growing and **aging**.

People are **living longer**, increasing demand for all types of health services.

Health care workers, especially nurses are **retiring** and will need to be replaced.

Technology is changing the face of health care.

Health Care Occupations with Greatest Projected Demand in Volume in the Central Region

- Registered Nurses *
- Nursing Aides, Orderlies, & Attendants *
- Licensed Practical & Licensed Vocational Nurses *
- Home Health Aides *
- Medical Assistants *
- Emergency Medical Technicians & Paramedics *
- Health Care Support Workers, All Other *
- Medical & Clinical Laboratory Technicians
- Family & General Practitioners

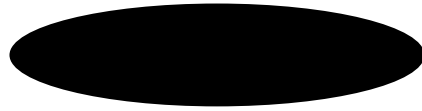
* Employment can be obtained with training 2 years or less.

Work Where?

The health care industry offers opportunities for you to work in a variety of settings with flexible hours and with different levels of interaction with people. Some places you may find employment include:

- * Hospitals
- * Doctors' and Dentists' Offices
- * Nursing Care Facilities
- * Home Health
- * Rehabilitation Centers
- * Schools
- * Insurance Companies
- * Laboratories
- * Residential Centers

Health Care Career Information



National Occupational Outlook Handbook

<http://www.bls.gov/oco/home.htm>

National Health Occupations Students of America

<http://www.hosa.org>

Pennsylvania Health Careers

<http://www.pahealthcareers.org>

Northcentral Pennsylvania AHEC

www.ncpaahcec.org

Pennsylvania's Heartland

<http://www.pennsylvaniashheartland.com>

Health Career Guide

<http://www.khake.com/page22.html>

HRSA – Kids into Health Careers

<http://bhpr.hrsa.gov/kidscareers/about.htm>

The Pfizer Guides to Careers in Healthcare

<http://www.pfizercareerguides.com>

PHEAA Nursing Loan Forgiveness

http://www.pheaa.org/loanforgiveness/healthier_futures.shtml

American Medical Association

<http://www.ama-assn.org>

Health Professions Network

<http://www.healthpronet.org>

Pennsylvania Department of Health

www.health.state.pa.us

American Nurses Association

<http://www.nursingworld.com>

Discover Nursing

<http://discovernursing.com/>

To Be A Nurse Home Page

<http://www.tobeanurse.com>

Pennsylvania Governor's School for Healthcare

<http://www.pitt.edu/~pgshc>

America's Career InfoNet

<http://www.acinet.org/acinet/>

Important Health Care Skills: Active listening; Focus on helping people; Problem identification; Decision making.

Key Areas of Health Care Knowledge: Biology; Psychology; Therapy and counseling; Customer service.

Why Consider a Career in Health Care?

- **Job security** – direct health care will not move offshore.
- **Family sustaining wages**
- **Flexibility** – healthcare is a 24-hour per day industry.
- **Career ladder potential** – one job does not have to be your last
- **Personal satisfaction of helping others**
- **Choices** – work behind the scenes or on the front lines.
- **Education** – you can get started in health care with less than 2 years of educational investment.

Sample Health Care Training Providers

- Bloomsburg University
- Clearfield County CTC
- Central Pennsylvania Institute
- Central Susquehanna LPN Career Center
- Computer Learning Network
- Harrisburg Area Community College
- Lock Haven University
- Mifflin—Juniata CTC
- Pennsylvania College of Technology
- Penn State University
- Pennsylvania Highlands Community College
- South Hills

For more information on Healthcare careers, contact your guidance counselor and/or the Pennsylvania CareerLink,



Lumber and Wood Fast Facts

2005 Statistics	Central PA	Pennsylvania
Number of Businesses	300	3,800
Number of Jobs	13,300	91,200
Average Wage	\$32,614	\$32,991
% of Total Region/State Employment	5%	2%

The Lumber and Wood Products Industry is expected to grow by 990 jobs between 2004 and 2014 in the Central Region. This is faster than the average industry in the area!

All jobs in the Central Region are expected to grow by 4.5% between 2004 and 2014. The Farming, Fishing and Forestry Occupations are expected to decrease by 1.8%. Almost all growth is anticipated in the manufacturing component of the Lumber and Wood industry. The greatest growth is expected in the Other Wood Product Manufacturing industry. Nearly 100% of opportunities will be created by **replacement** as individuals retire or leave the workforce.

Why the Changing Face of the Lumber & Wood Products Industry?

Global competition for quality products produced at the lowest cost.

Environmental issues, such as forest regeneration, infestation and natural weather patterns, continue to affect the industry.

Environmental regulations are creating the need for processing changes that require trained employees.

What kinds of industries?

The Central Region offers opportunities to work in a variety of lumber and wood industries, including:

- * Logging
- * Forestry Management
- * Sawmills & Wood Preservation
- * Millwork
- * Cabinetry
- * Household Furniture Manufacturing
- * Office Furniture Manufacturing
- * Custom Architectural Woodwork
- * Lumber and Wood Wholesale
- * Home Center Sales
- * Building Material Sales

Lumber and Wood Occupations with Greatest Projected Demand in Volume in the Central Region

- Team Assemblers *
- First-Line Supervisors of Production & Operating Workers *
- Helpers— Production Workers *
- Inspectors, Testers, Sorters, Samplers, & Weighers *
- Production Workers, All Other *
- Welders, Cutters, Solderers, & Brazers *

* Employment can be obtained with training 2 years or less.

All data was provided by the Center for Workforce Information and Analysis, Pennsylvania Department of Labor and Industry, www.paworkstats.state.pa.us.

Lumber and Wood Career Information

National Occupational Outlook Handbook

<http://www.bls.gov/oco/home.htm>

Pennsylvania's Heartland

<http://www.pennsylvaniashartland.com>

America's Career InfoNet

<http://www.acinet.org/acinet/>

O Net

<http://online.onetcenter.org>

Forest Industry On-line

www.forestindustry.com

American Wood Council

www.awc.org

Directory of Forest Products

www.forestdirectory.com

American Furniture Manufacturing

www.afma4u.org

Explore Careers in Carpentry

<http://vocationalinformationcenter.freesevers.com/page14.html>

Pennsylvania Hardwoods Development Council

<http://www.agriculture.state.pa.us/agriculture/cwp/view.asp?a=3&q=127137>

Forest and Wood Industry Educator Community

<http://www.teachaboutwood.org/industry-resources.htm>

Keystone Wood Products Association

www.keystonewoodpa.org

Don't Want to Work in Production?

The lumber and wood products industry offers many opportunities for individuals not working in a product environment. You can be valuable to the industry through careers in:

- * Administration and Management
- * Financial and Personnel Management
- * Customer Service
- * Information Technology
- * Engineering
- * Transportation and Logistics
- * Environmental Regulations
- * Forestry Management

Sample Lumber and Wood Training Providers

- Central Pennsylvania Institute of Technology
- Clearfield County Career & Technical Center
- Columbia-Montour Vocational Technical School
- Harrisburg Area Community College
- Keystone Central Career & Technology Center
- Lycoming County Career & Technical Center
- Northumberland County AVTS
- Pennsylvania College of Technology
- Penn State University
- Schuylkill Technical Center
- SUN Area Career and Technical Center
- Triangle Tech

Important Lumber and Wood Products Skills: Manual dexterity, Mechanical ability, Attention to detail, Eye-hand coordination, Machine maintenance and repair

Key Areas of Manufacturing Knowledge: Math, Science, Computer applications, Mechanical drawing/drafting

For more information on manufacturing careers, contact your guidance counselor and/or the Pennsylvania CareerLink,
www.pacareerlink.state.pa.us

