



Advanced Materials & Diversified Manufacturing

FAST FACTS

2009 Statistics	Central Region	Pennsylvania
Number of Employers	310	7,600
Number of Jobs	13,300	257,000
Average Earnings Industry earnings include benefits.	\$53,600	\$67,000
% of Total Employment	3.8%	3.6%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the advanced materials and diversified manufacturing industry cluster is expected to decline by 5%. However, opportunities will still exist because of replacement jobs.

Top Occupations	Most Common Education Level	Percent of Industry
Team assemblers	Moderate-term on-the-job training	7%
First-line supervisors/managers of production and operating workers	Work experience in a related field	4%
Machinists	Long-term on-the-job training	4%
Helpers--Production workers	Short-term on-the-job training	4%
Welders, cutters, solderers, and brazers	Long-term on-the-job training	3%
Inspectors, testers, sorters, samplers, and weighers	Moderate-term on-the-job training	3%

Work Where?

The advanced materials and diversified manufacturing industry offers opportunities for you to work in a variety of settings. Some places you may find employment include:

- Analytical laboratory instrument mfg.
- Books printing
- Iron and steel mills
- Machine shops
- Plastics bag manufacturing
- Steel wire drawing

WorkKeys[®] Median Assessment Scores for Sample Occupations

	First-line supervisors/ managers of production and operating workers	Machinist	Welders, cutters, solderers, and brazers
Math	4	4	3
Locating Information	4	4	4
Reading	4	4	3

Source: WorkKeys Occupational Profiles, www.act.org. Scores are not for a specific region or time period.

How Much Training:

There are jobs for a variety of education levels

Moderate-term on-the-job training	45%
Short-term on-the-job training	20%
Long-term on-the-job training	14%
Work experience in a related field	8%
Bachelor's degree	6%
Degree plus work experience	3%
Postsecondary vocational award	2%
Associate's degree	2%
First professional degree	<1%
Master's degree	<1%
Doctoral degree	<1%

*Proportion of jobs (2009) that typically require the corresponding level of education.

Learn more about these occupations at <http://online.onetcenter.org>.



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Advanced Materials & Diversified Manufacturing

Cluster Employers

The following is a list of some of the largest Advanced Materials and Diversified Manufacturing employers in the Central Region:

ABB Inc	Keystone Friction Hinge Co
Acf Industries LLC	K-Fab Inc
Alcan Corp	Kydex LLC
Benton Foundry Inc	L-3 Communications Corp
Broadband Networks Inc	National Ticket Co
Brush Industries Inc	Phoenix Data Inc
Cannon Instrument Co	PRIMUS Technologies Corp
C-Cor Inc	Prototypes Unlimited Inc
Centrex Precision Plastics Inc	R R Donnelley & Sons Co
Cheetah Chassis Corp	SMS Siemag LLC
Chromagraphic Processing Co	Sol-Ler Manufacturing
Coastal Aluminum Rolling Mills	Sound Technology Inc
Construction Specialties Group	Standard Steel LLC
Donsco Inc	State Of The Art Inc
G & B Specialties Inc	Suscon Inc
GE Inspection Technologies	Tech Group Inc
General Dynamics Satcom Techs	Textron Lycoming Corp
Great Dane LP	Trinity Packaging Corp
Hilex Poly Co L L C	Truck Accessories Group LLC
Impress USA Inc	Truck-Lite Co Inc
Irvin's Corp	West Pharmaceutical Services
Jeraco Enterprises Inc	Wirerope Works Inc
Jersey Shore Steel Co	
Keystone Forging Co	



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2008 Statistics	Central Region	Pennsylvania
Number of Employers	760	12,890
Number of Jobs	38,500	578,770
Average Wage Average wages do not include benefits.	\$44,200	\$41,450
% of Total Employment	10.8%	8.1%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the education industry cluster is expected to grow by 2.2%.

Work Where?

The education industry cluster offers opportunities for you to work in a variety of settings. Some places you may find employment include:

1. Colleges and universities
2. Elementary and secondary schools
3. Child day care services
4. School and employee bus transportation
5. Junior colleges
6. Vocational rehabilitation services
7. Libraries and archives

Top Occupations	Most Common Education Level	Percent of Industry
Elementary School Teachers	Bachelor's degree	7%
Secondary School Teachers	Bachelor's degree	6%
Teacher Assistants	Short-term on-the-job training	3%
Office Clerks, General	Short-term on-the-job training	3%
Bus Drivers, School	Moderate-term on-the-job training	3%
Executive Secretaries and Administrative Assistants	Moderate-term on-the-job training	2%
Middle School Teachers	Bachelor's degree	2%

WorkKeys® Median Assessment Scores for Sample Occupations

	Office clerks, General	Teacher Assistants	Executive Secretaries and Administrative Assistants
Math	3	4	4
Locating Information	4	3	4
Reading	4	4	4

Learn more about these occupations at <http://online.onetcenter.org>.

Source: WorkKeys® Occupational Profiles, www.act.org. Scores are not for a specific region or time period.



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Prepared by the Central Pennsylvania Workforce Development Corporation (CPWDC), March 2010. Education level data provided by Economic Modeling Specialists, Inc., 2010 (EMSI). Unless noted otherwise, all other data was provided by the Pennsylvania Department of Labor and Industry's Center for Workforce Information and Analysis (CWIA) and calculated by the CPWDC. CWIA is not liable for the content as presented nor does CWIA necessarily endorse the statements made herein. Employment data does not account for any closures, layoffs or expansions that have occurred since 2008. All information is based on the available NAICS data and NAICS level.



Education

Cluster Employers

The following is a list of all the Education employers in the Central Region:

- Bald Eagle Area School District
- Berwick Area School District
- Berwick Area School District
- Bloomsburg Area School Dist
- Central Columbia School Dist
- Central Susquehanna
- Columbia Montour Voc Tech Sch
- East Lycoming School District
- Jersey Shore Elementary School
- Keystone Central School Dist
- Line Mountain School District
- Lock Haven University of PA
- Lycoming College
- Midd-West School District
- Mifflin County School District
- Mifflinburg Area School Dist
- Mifflinburg Head Start Center
- Millville Area School District
- Milton Area School District
- Montoursville Area School Dist
- Mount Carmel Area School Dist
- Mountoursville High School
- Muncy School District
- Penn State University
- Penns Valley Area School Dist
- Pennsylvania College of Tech
- Pennsylvania State University
- Philipsburg-Osceola Area Sch
- Selinsgrove Area School Dist
- Shamokin Area School District
- Shikellamy School District
- South Williamsport Area School
- State College Area Family YMCA
- State College Area School Dist
- Susquehanna University
- Warrior Run School District
- Williamsport Area School Dist



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Energy

FAST FACTS

2009 Statistics	Central Region	Pennsylvania
Number of Employers	160	2,800
Number of Jobs	3,050	89,700
Average Earnings Industry earnings include benefits.	\$69,200	90,000
% of Total Employment	0.9%	1.2%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the energy industry cluster is expected to grow by 5%.

Top Occupations	Most Common Education Level	Percent of Industry
Refuse and recyclable material collectors	Short-term on-the-job training	8%
Truck drivers, heavy and tractor-trailer	Moderate-term on-the-job training	6%
Telecommunications line installers and repairers	Long-term on-the-job training	4%
Construction laborers	Moderate-term on-the-job training	4%
Power plant operators	Long-term on-the-job training	3%
Operating engineers and other construction equipment operators	Moderate-term on-the-job training	3%

Work Where?

The energy industry offers opportunities for you to work in a variety of settings. Some places you may find employment include:

- Power and communication system construction
- Solid waste collection
- Fossil fuel electric power generation
- Other petroleum merchant wholesalers
- Pipeline transportation of natural gas
- Electric power distribution

WorkKeys[®] Median Assessment Scores for Sample Occupations

	Truck Drivers, Heavy	Telecommunications line installers and repairs	Construction laborers
Math	3	3	3
Locating Information	4	4	4
Reading	4	4	4

Source: WorkKeys Occupational Profiles, www.act.org. Scores are not for a specific region or time period.

How Much Training:

There are jobs for a variety of education levels

Moderate-term on-the-job training	33%
Short-term on-the-job training	21%
Long-term on-the-job training	21%
Work experience in a related field	9%
Bachelor's degree	7%
Postsecondary vocational award	4%
Degree plus work experience	3%
Associate's degree	2%
Master's degree	1%
First professional degree	<1%
Doctoral degree	<1%

*Proportion of jobs (2009) that typically require the corresponding level of education.

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Energy

Cluster Employers

The following is a list of some of the largest Energy employers in the Central Region:

Arcos Industries LLC	Mallard Contracting Co Inc
Axeman-Anderson Co Inc	Miller's Gas & Oil Service Inc
B & W Disposal Inc	Mt Carmel Cogen Inc
C & T Enterprises Inc	Ncl Natural Resources LLC
Carmel Susquehanna-Mt Inc	Nittany Oil Co Inc
Clinton County Solid Waste	Pfg Gas Inc
Columbia Gas Transmission Corp	Ppl Electric Utilities Corp
D E Associates Inc	Prestek
Dg Power Systems LLC	Public Service Electric & Gas
EIT Corp Phoenix	Reichdrill Inc
F B Leopold Co Inc	Rod Dri Co Inc
Farm & Home Oil Co LLC	Savitski Bros Coal Sales
Fisher Mining Co	Sherman Coal Co Inc
Five Star Group Inc	Snyder Fuels Inc
Flowserve Corp	Sunbury Generation LP
Fred Carson Sanitary Disposal	Supelco Inc
Fred Hamm Inc	TECHNISERV Inc
Hellers Gas Inc	Transcontinental Gas Pipe Line
Hiller's Inc	UGI Central Penn Gas
John Glann Sanitation Service	UNI-Marts LLC
Keystone Sanitation Service	Valley Technologies Inc
King Coal Sales Inc	Veolia Es Solid Waste of Pa
Kitco Tool Inc	Viking Energy of
Leroy W Peters Disposal Svc	Williamsport Sanitary Auth
Love Disposal Service	



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Healthcare

FAST FACTS

2009 Statistics	Central Region	Pennsylvania
Number of Employers	1,120	22,990
Number of Jobs	34,500	860,370
Average Earnings Industry earnings include benefits.	\$51,800	\$56,220
% of Total Employment	9.7%	12.1%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the healthcare industry cluster is expected to grow by 15%.

Top Occupations	Most Common Education Level	Percent of Industry
Registered nurses	Associate's degree	13%
Nursing aides, orderlies, and attendants	Postsecondary vocational award	9%
Home health aides	Short-term on-the-job training	8%
Licensed practical and licensed vocational nurses	Postsecondary vocational award	5%
Physicians and surgeons	First professional degree	4%
Receptionists and information clerks	Short-term on-the-job training	3%

Work Where?

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

Some places you may find employment include:

- General medical and surgical hospitals
- Nursing care facilities
- Offices of physicians, except mental health
- Continuing care retirement communities
- Home health care services
- All other outpatient care centers

WorkKeys[®] Median Assessment Scores for Sample Occupations

	Registered nurses	Nursing aides, orderlies, and attendants	Home health aides
Math	4	3	4
Locating Information	4	4	4
Reading	5	4	4

Source: WorkKeys Occupational Profiles, www.act.org. Scores are not for a specific region or time period.

How Much Training:

There are jobs for a variety of education levels

Short-term on-the-job training	27%
Postsecondary vocational award	19%
Associate's degree	18%
Moderate-term on-the-job training	14%
First professional degree	6%
Bachelor's degree	5%
Master's degree	5%
Degree plus work experience	3%
Work experience in a related field	2%
Long-term on-the-job training	1%
Doctoral degree	1%

*Proportion of jobs (2009) that typically require the corresponding level of education.

Learn more about these occupations at <http://online.onetcenter.org>.



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Healthcare

Cluster Employers

The following is a list of some of the largest Healthcare employers in the Central Region:

- | | |
|--------------------------------|-------------------------------|
| Atlas Development Associates | Lycoming Community Care Inc |
| Berwick Hospital Center Home | Millville Nursing Center |
| Bloomsburg Hospital | Mount Nittany Medical Center |
| Brookline Home Care Inc | Nottingham Health Care Svcs |
| Centre Medical & Surgical | Penn-Med Consultants Inc |
| Clinton Hospital Corp | Pennsylvania State University |
| Coldren Associates | PHI |
| County of Centre | Roman Catholic Diocese of |
| County of Northumberland | Roseview Center |
| Diakon Lutheran Social | SC Investors Inc |
| Divine Providence Hospital of | Select Medical Corp |
| Evangelical Community Hospital | Shamokin Area Community Hosp |
| Family Practice Center, PC | Strawberry Fields Inc |
| Geisinger Clinic | Sunbury Hospital Co |
| Geisinger Medical Center | Susque View Home |
| Grandview Health Home | Susquehanna Home Care |
| Hcr Manorcare Medical Services | Tura LP |
| HEALTHSOUTH Of Nittany Valley | U H S of Pennsylvania Inc |
| Highmark Inc | Valley View Haven |
| Hope Enterprises Inc | Village At Penn State |
| Jersey Shore Hospital | White Deer Run Inc |
| Kramm Healthcare Center Inc | Williamsport Home |
| Kramm Nursing Home & Rehab | Williamsport Hospital |
| Lewistown Hospital | |
| Louise Town Hospital | |



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Lumber, Wood, & Paper

FAST FACTS

2009 Statistics	Central Region	Pennsylvania
Number of Employers	200	2,450
Number of Jobs	8,100	59,670
Average Earnings Industry earnings include benefits.	\$52,000	\$54,000
% of Total Employment	2.3%	0.8%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the lumber, wood, and paper industry cluster is expected to decline by 1%. However, opportunities will still exist because of replacement jobs.

Top Occupations	Most Common Education Level	Percent of Industry
Paper goods machine setters, operators, and tenders	Moderate-term on-the-job training	10%
Cabinetmakers and bench carpenters	Long-term on-the-job training	8%
Team assemblers	Moderate-term on-the-job training	6%
Carpenters	Long-term on-the-job training	5%
Helpers--Production workers	Short-term on-the-job training	5%
Laborers and freight, stock, and material movers, hand	Short-term on-the-job training	4%

Work Where?

The lumber, wood, and paper industry offers opportunities for you to work in a variety of settings. Some places you may find employment include:

- Wood kitchen cabinet and countertop mfg.
- Sanitary paper product manufacturing
- Paper industry machinery manufacturing
- Lumber and wood merchant wholesalers
- Corrugated and solid fiber box manufacturing
- Logging

WorkKeys[®] Median Assessment Scores for Sample Occupations

	Paper goods machine setters, operators, and tenders	Cabinetmakers and bench carpenters	Carpenters
Math	3	4	3
Locating Information	4	4	4
Reading	4	3	4

Source: WorkKeys Occupational Profiles, www.act.org. Scores are not for a specific region or time period.

How Much Training:

There are jobs for a variety of education levels

Moderate-term on-the-job training	45%
Short-term on-the-job training	22%
Long-term on-the-job training	18%
Work experience in a related field	8%
Bachelor's degree	3%
Degree plus work experience	2%
Postsecondary vocational award	1%
Associate's degree	1%
Doctoral degree	<1%
First professional degree	<1%
Master's degree	<1%

*Proportion of jobs (2009) that typically require the corresponding level of education.

Learn more about these occupations at <http://online.onetcenter.org>.



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Lumber, Wood, & Paper

Cluster Employers

The following is a list of some of the largest Lumber, Wood, and Paper employers in the Central Region:

A & L Wood Inc	Keystone Building Products Inc
Andritz Inc	Koppers Inc
Avery Dennison Corp	Kuhns Bros Lumber Co Inc
Beacon Container Corp of PA	Labels By Pulizzi Inc
Black Bear Truss Co Inc	Legacy Building Products Inc
Brodart Co	Lewis Lumber Products Inc
Brodart Co	Lewistown Cabinet Center Inc
Catawissa Lumber & Specialty	Lezzer Wholesale Supply Inc
Cherry Hill Hardwoods Inc	Masonite Corp
Collegiate Furnishings Inc	New Ngc Inc
Collins Tool Corp	Nutek Disposables Inc
Colonial Furniture Co	Packaging Service Group Inc
Conestoga Wood Specialties	Palcon LLC
Consolidated Container Co LLC	R J & Sons Hoffman
Construction Specialties Group	R J F International Corp
Continental Packaging Corp	Remmey The Pallet Co
David R Webb Co Inc	Renninger's Cabinetree Inc
Eastern Wood Products Co	Sam Mannino Enterprises LLC
First Quality Baby Products	Selectrim Corp
Heister House Millworks Inc	Smurfit-Stone Container Corp
Housing Products Inc	Sonoco Products Co
International Paper Co	Spectra Inc
Janway Co USA Inc	Thomas Timberland Enterprises
Jeld - Wen Inc	Woodcraft Industries Inc



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Natural Gas

FAST FACTS

Information based on traditional labor market data:

2009 Statistics	Central Region
Number of Employers	8
Number of Jobs	307
Average Wage Average wages do not include benefits.	\$79,845
% of Total Employment	0.1%

While all jobs in the Central Region are expected to grow by 8% between 2009 and 2019, the natural gas industry cluster is expected to grow by 17%.

The information above is taken from EMSI data source. As you can see there is a very low number of jobs and the natural gas industry consists of less than 1% of total employment in the Central Region. This is what information from traditional sources tends to look like because the information is so limited.

Information based on an industry based survey:

Year	2009	2011	2013
Number of Jobs	434	1,796	1,796

The information above is taken from the Marcellus Shale Workforce Needs Assessment. This only includes employment that is created due to growth of natural gas related jobs in the Marcellus Shale region. As you can see these numbers are much higher than the EMSI data. This is a more realistic view of the natural gas sector. You can see that employers have not yet projected job growth for 2013 so the numbers remain the same as 2011.

Most Prevalent Occupations	Percent of Industry
General Office (Accounting, IT, Reception, Secretary, etc)	20%
General Labor (Roughnecks, Roustabouts, etc)	20%
Heavy Equipment Labor (Frac Crew, Crane, Rig Move, etc)	16%
CDL	10%
Semi-Skilled Tech	6%
Landmen/Realty	5%

The direct workforce need to drill a single well in the Marcellus Shale is comprised of over 410 individuals working in 150 occupations on an hourly basis. This equates to 11.5 full time jobs per well.

WorkKeys® Median Assessment Scores for Sample Occupations

	Truck drivers, Heavy	First-line supervisors/managers construction trades and extraction workers	Crane operator
Math	3	3	3
Locating Information	4	4	3
Reading	4	5	3

Work Where?

The natural gas industry cluster offers opportunities for you to work in a variety of settings. Some places you may find employment include:

- Drilling Phase Jobs (pre, during, and post)
- Production Phase Jobs

In addition to direct jobs in the drilling and production phases of a well, the Pennsylvania Economic League estimates that each drill job creates an additional 1.52 jobs (indirect and induced) in the economy.

Learn more about these occupations at <http://online.onetcenter.org>.

Source: WorkKeys® Occupational Profiles, www.act.org. Scores are not for a specific region or time period.



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