

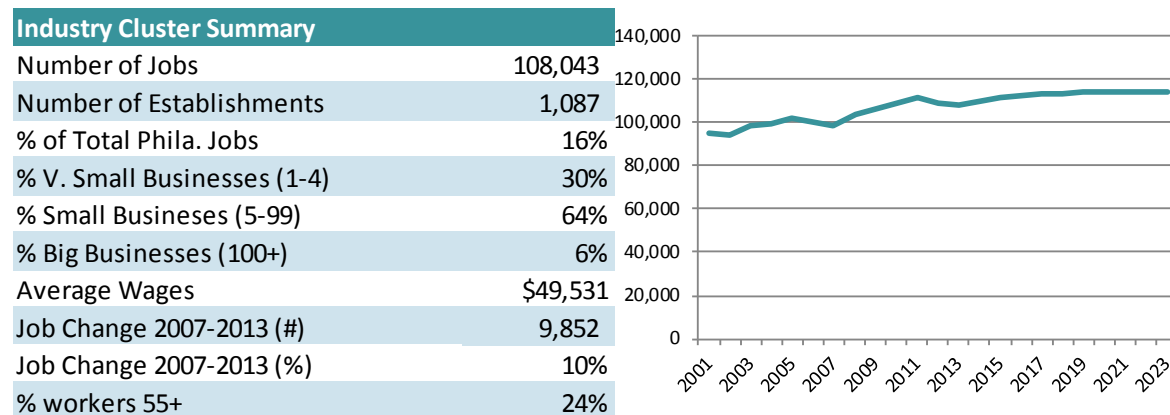
Industry Profiles – Education

The Education cluster provides a full view of educational institutions in the state. The cluster encompasses elementary schools through universities, as well as technical schools and junior colleges. Finally, public agencies that oversee educational programs are included in the cluster¹.

This report presents an overview of employment trends. We examine how the Education industry cluster has changed since 2007, the year before the Great Recession had an impact. Then, we examine the composition of the industry cluster by size of businesses and highlight clusters with the largest share of smaller businesses. The section on workers demographics shows the composition of industry clusters by gender, age, and education. Finally, we look at the major occupations that support industry clusters.

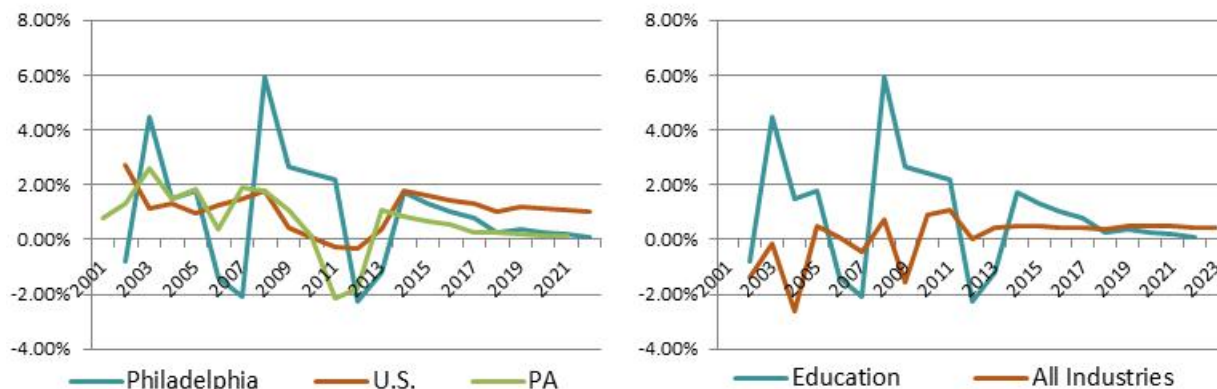
- Education is the second largest industry cluster in Philadelphia and accounted for 16 percent of jobs in 2013. The cluster grew 10 percent from 2007 through 2013. The 2013 layoffs in Philadelphia schools are not reflected in these numbers.

SUMMARY OF EDUCATION INDUSTRY CLUSTER IN PHILADELPHIA



¹ Descriptions of industry clusters are borrowed directly from the State report. The full report can be found here: <http://www.portal.state.pa.us/portal/server.pt/community/products/19738>

% CHANGE IN EMPLOYMENT IN EDUCATION IN PHILADELPHIA VS. PA AND U.S. AND VS. ALL INDUSTRIES



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

Industry Highlights

- Private Colleges, Universities, and Professional Schools; Private and Local Government funded Elementary and Secondary Schools; and Child Care Services were top industries in Education.
- Local government-funded Elementary and Secondary Schools and Colleges, Universities and Professional schools declined since 2007. Among top industries, Exam Preparation and Tutoring; Educational Support Services, and Private Junior Colleges had the highest increases in employment.
- The difference between expected change (determined from the national trends) and actual change can be seen as competitive effect –growth or decline attributed to local factors. Child Day Care Services; Private Elementary and Secondary Schools; and Colleges, Universities, and Professional Schools grew due to unique regional factors.
- Wages in the Education industry cluster in Philadelphia (\$49,531) were above wages in the cluster in Pennsylvania (\$40,041). Among top industries, School and Employee Bus Transportation; Child Care Services; Private Fine Arts Schools; and Exam Preparation and Tutoring industries paid the lowest wages.

TOP INDUSTRIES IN EDUCATION IN PHILADELPHIA

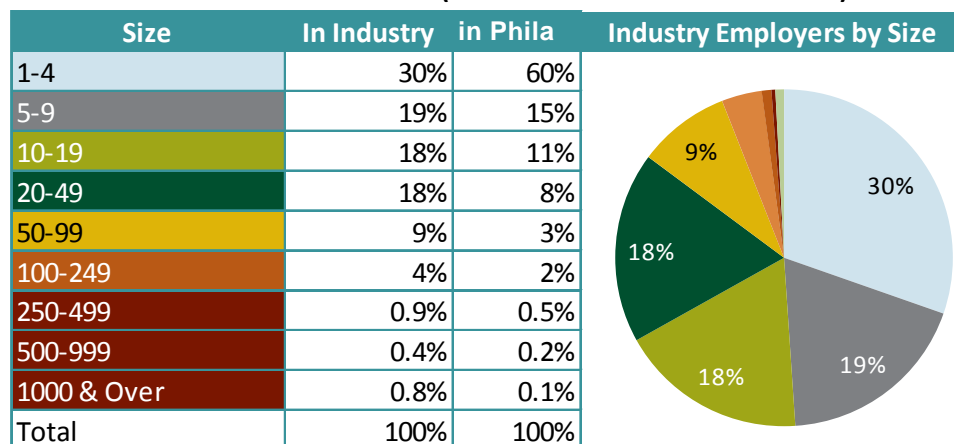
Industry	Jobs 2013	% Change 2007-2013	Change	Expected Change	Competitive Effect	Wages
Colleges, Universities, and Professional Schools (Private)	59,197	▲ 16.1%	8,192	7,222	971	\$54,873
Elementary and Secondary Schools (Local Government)	19,972	▼ -19.1%	(4,708)	(774)	(3,933)	\$54,777
Elementary and Secondary Schools (Private)	12,878	▲ 29.5%	2,936	1,204	1,732	\$39,367
Child Day Care Services	6,922	▲ 32.7%	1,705	(159)	1,863	\$21,659
Educational Support Services (Private)	2,008	▲ 70.3%	829	450	379	\$62,747
School and Employee Bus Transportation	1,181	▲ 31.2%	281	56	224	\$19,077
Exam Preparation and Tutoring (Private)	1,171	▲ 75.8%	505	145	360	\$29,958
Colleges, Universities, and Professional Schools (Local Government)	1,086	▼ -43.4%	(833)	189	(1,021)	\$34,915
Fine Arts Schools (Private)	871	▲ 46.9%	278	118	160	\$24,754
Junior Colleges (Private)	820	▲ 71.2%	341	72	270	\$35,363
Other Technical and Trade Schools (Private)	594	▲ 50.4%	199	51	148	\$35,470
Apprenticeship Training (Private)	282	▲ 75.2%	121	(1)	122	\$56,436

Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

Employers in Education

- Over 1,000 businesses make up Education industry cluster. “Very small businesses” businesses (1-4 employees) represent 30 percent of establishments in the cluster. “Small businesses” (5-99 employees) make up 64 percent of employers in the cluster.

EMPLOYERS IN EDUCATION BY SIZE (PERCENT OF TOTAL EMPLOYERS)



Source: PA Employer Database 2013

TOP EMPLOYERS IN EDUCATION

DREXEL UNIVERSITY	FRANKLIN TOWNE CHARTER HIGH SCHOOL
LA SALLE UNIVERSITY	FRIENDS SELECT SCHOOL
SAINT JOSEPH'S UNIVERSITY	HMS SCHL FOR CHILD W/CEREBRAL PALSY
TEMPLE UNIVERSITY	INDEPENDENCE CHARTER SCHOOL
THOMAS JEFFERSON UNIVERSITY	JEVS HUMAN SERVICES
UNIVERSITY OF THE SCIENCES IN PHILA	KIPP PHILADELPHIA CHARTER SCHOOL
DREXEL UNIVERSITY COLLEGE OF MEDICINE	MARIANA BRACETTI ACAD CHARTER SCHL
UNIVERSITY OF PENNSYLVANIA	MASTERY CHARTER HIGH SCHOOL
HOLY FAMILY UNIVERSITY	MASTERY CHARTER SCHOOL GRATZ CAMPUS
PHILA COLLEGE OF OSTEOPATHIC MED	MATH SCIENCE/TECH COMM CHARTER SCHL
PHILADELPHIA UNIVERSITY	MATHEMATICS CIVICS AND SCIENCES CHA
UNIVERSITY OF THE ARTS	MOORE COLLEGE OF ART
ASPIRA INC OF PA	NEW FOUNDATIONS CHARTER SCHOOL
ATLANTIC EXPRESS INC OF PA	OLNEY CHARTER HIGH SCHOOL AN ASPIRA
CHESTNUT HILL COLLEGE OF THE SISTER	PA ACADEMY OF THE FINE ARTS
DREXEL UNIVERSITY	PEIRCE COLLEGE
DURHAM D & M LLC	PHILA ACADEMY CHARTER SCHOOL
EDU COMM FOR FOREIGN MED GRADUATES	PHILA PERFORMING ARTS CHARTER SCHL
GERMANTOWN FRIENDS SCHOOL	PHILLY TRANSPORTATION LLC
NATIONAL BOARD OF MEDICAL EXAMINERS	SETTLEMENT MUSIC SCHOOL
OVERBROOK SCHOOL FOR THE BLIND	SPRINGSIDE SCHOOL
ART INSTITUTE OF PHILADELPHIA	THE CURTIS INSTITUTE OF MUSIC
1ST PHILA CHARTER SCHL FOR LITERACY	THE PA SCHOOL FOR THE DEAF
ALL CITY TRANSPORTATION INC	THE PHILADELPHIA SCHOOL
ARAMARK CAMPUS LLC	WALTER D PALMER LEADERSHIP LEARNING
CHESTNUT HILL ACADEMY	WILLIAM PENN CHARTER SCHOOL
COMMUNITY ACADEMY OF PHILADELPHIA	YELLOWBIRD BUS CO INC
CORA SERVICES INC	ACELERO LEARNING CAMDEN/PHILA
CULINARY ACADEMY OF LONG ISLAND INC	ARCHBISHOP RYAN BOYS HIGH
DREXEL UNIVERSITY	FATHER JUDGE HIGH SCHOOL
EDUCATION WORKS INC	PRECIOUS BABIES LEARNING ACADE
ESPERANZA ACADEMY CHARTER HIGH SCHL	THE EYE INSTITUTE

Source: PA Employer Database 2013

Worker Demographics

Workforce demographics are examined by gender, age, and education of workers.

Gender of Workers in Education

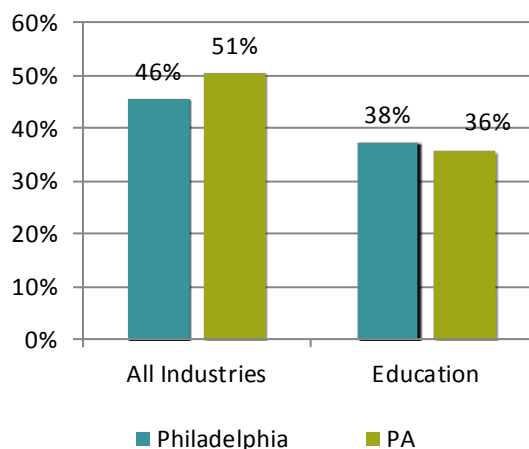
- There are more women (62 percent) than men employed in the Education industry cluster in Philadelphia, similar to the gender split across the state.
- Women represented nearly 9 of 10 workers in Child Care Services. School and Employee Bus Transportation Services had an even split by gender.

GENDER OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS

% MEN EMPLOYED IN EDUCATION IN PHILADELPHIA

	% men
School & Employee Bus Transp.	51%
All Industries	46%
Colleges & Universities	43%
Junior Colleges	40%
Tech. & Trade Schools	38%
Education	38%
Other Schools & Instruction	37%
Business, Comp. & Manag. Training	36%
Educational Support Svc	33%
Elementary & Secondary Schools	30%
Child Day Care Svc	11%

% MEN EMPLOYED BY CLUSTER AND GEOGRAPHY



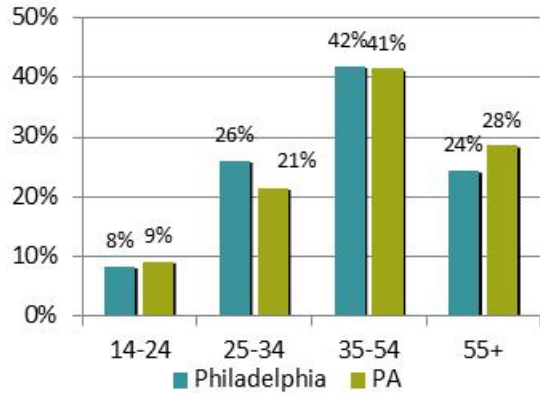
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

Age of Workers in Education

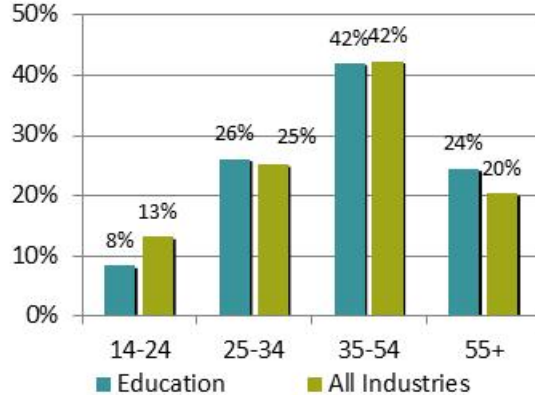
- The majority of workers in Education are middle aged – ages from 35 to 54. Philadelphia workers in the industry cluster tend to be younger as compared to workers in Pennsylvania.
- Child Day Care Services; Other School and Instruction employed a larger share of younger workers. Educational Support Services; Business Schools and Computer and Management Training; Junior Colleges; and Colleges, Universities, and Professional Schools employed more older workers as compared to other industries in the cluster.

AGE OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:

EMPLOYED IN EDUCATION IN PHILADELPHIA VS. PA



EMPLOYED IN EDUCATION IN PHILADELPHIA VS. ALL INDUSTRIES IN PHILADELPHIA



Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

TOP INDUSTRIES IN EDUCATION IN PHILADELPHIA BY AGE OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS

Industry/Age	14-24	25-54	55+	Total	# Employed
Colleges & Universities	6.2%	68.1%	25.6%	100%	46,496
Elementary & Secondary Schools	8.9%	67.6%	23.5%	100%	9,954
Child Day Care Svc	20.8%	63.3%	16.0%	100%	6,331
Educational Support Svc	4.5%	66.5%	29.0%	100%	2,336
Other Schools & Instruction	15.0%	68.7%	16.3%	100%	2,038
School & Employee Bus Transp.	7.4%	66.3%	26.3%	100%	1,209
Tech. & Trade Schools	8.7%	73.4%	17.9%	100%	823
Junior Colleges	2.0%	71.5%	26.5%	100%	417
Business, Comp. & Manag. Training	6.7%	65.9%	27.5%	100%	184
Education	8%	68%	24%	100%	69,788
All Industries	13%	67%	20%	100%	558,394

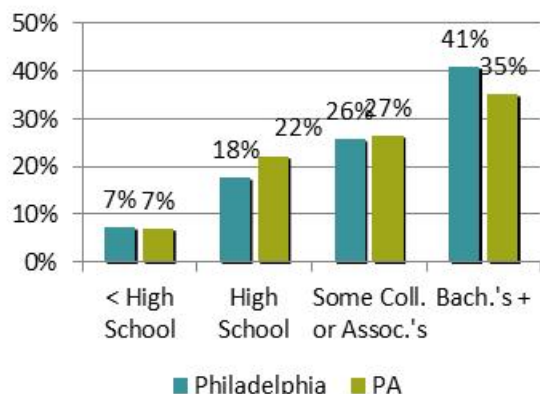
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

Education of Workers in Education

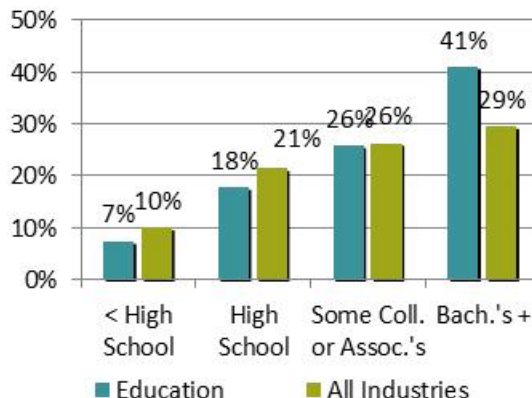
- The majority of workers in Education have a Bachelor’s degree or higher education. Philadelphia Workers in the industry cluster are more educated as compared to all other industries and in Pennsylvania.
- Colleges and Universities; Educational Support Services, and Business, Computer, and Management Training industries mostly rely on workers with Bachelors’ degrees or higher education.

EDUCATION OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:

**% EMPLOYED IN EDUCATION
PHILADELPHIA VS. PA**



**% EMPLOYED IN EDUCATION
VS. ALL INDUSTRIES IN PHILADELPHIA**



Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data. Education attainment is not available for workers under 25 – this category is not shown.

TOP INDUSTRIES IN EDUCATION IN PHILADELPHIA BY EDUCATION OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:

Industry/Education	< High School	High School	Some College or Assoc.'s	Bach.'s +	Unknown	Total	# Employed
Colleges & Universities	5.6%	15.6%	25.0%	47.6%	6.2%	100%	46,497
Elementary & Secondary Schools	8.2%	21.7%	28.0%	33.2%	8.9%	100%	9,954
Child Day Care Svc	14.4%	23.2%	26.7%	15.0%	20.8%	100%	6,332
Educational Support Svc	5.2%	17.7%	26.9%	45.6%	4.6%	100%	2,339
Other Schools & Instruction	12.3%	19.9%	25.5%	27.3%	15.0%	100%	2,038
School & Employee Bus Transp.	23.6%	32.1%	25.5%	11.3%	7.5%	100%	1,211
Tech. & Trade Schools	9.5%	23.5%	30.3%	27.9%	8.8%	100%	824
Junior Colleges	6.5%	21.9%	33.5%	35.2%	2.9%	100%	421
Business, Comp. & Manag. Training	6.6%	15.2%	26.7%	43.5%	8.0%	100%	186
Education	7.3%	17.8%	25.8%	41.0%	8.2%	100%	69,788
All Industries	10.0%	21.4%	26.2%	29.5%	12.9%	100%	558,394

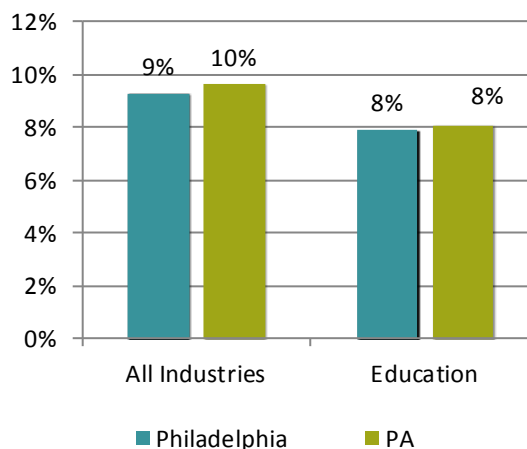
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

Turnover in Education

- Turnover rates help us evaluate the churning in the labor force – average number of separations and hires for the industry group. The rate shows what percentage of the labor force is new.
- Turnover rates in Education in Philadelphia (6 percent) were similar to turnover in Pennsylvania and across all industries.
- Turnover was highest across Educational Support Services at 23 percent.

TURNOVER RATES IN EDUCATION PHILADELPHIA IN 2012Q3 (FOUR QUARTER MOVING AVERAGE)

Industry/Turnover Rate	Turnover
Educational Support Svc	23%
Other Schools & Instruction	15%
School & Employee Bus Transp.	14%
Child Day Care Svc	13%
Tech. & Trade Schools	11%
All Industries	9%
Elementary & Secondary Schools	9%
Education	8%
Junior Colleges	7%
Colleges & Universities	6%
Business, Comp. & Manag. Training	6%



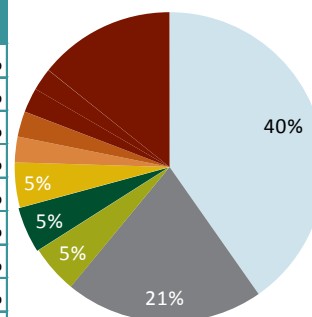
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

Occupation Highlights

- Staffing patterns analysis was used to identify occupations that are needed in the industry. Education and Office and Administrative Support occupational families were top families supporting the Education industry cluster.
- 44 percent of workers in Education had a Bachelor’s degree or higher education; 14 percent of them had a doctoral or a professional degree.

TOP OCCUPATIONAL FAMILIES IN EDUCATION INDUSTRY CLUSTER

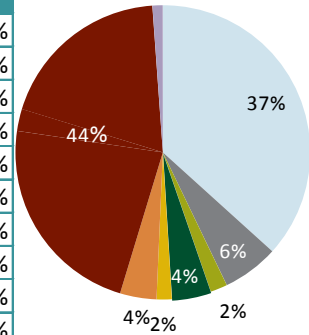
Occupational Family	Jobs 2007	Jobs 2013	Change %	% of 2013 Jobs
Education	43,167	43,499	1%	40%
Office and admin. support	18,182	22,384	23%	21%
Building and grounds cleaning and maint.	4,493	5,417	21%	5%
Personal care and service	4,010	5,171	29%	5%
Management	4,925	5,075	3%	5%
Comp. and mathematical	2,551	2,896	14%	3%
Food preparation	2,680	2,876	7%	3%
Business and financial operations	2,542	2,774	9%	3%
Community and soc. services	2,336	2,544	9%	2%
Unidentified + Other	13,305	15,407	16%	14%
Total	98,191	108,043	10%	100%



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

EDUCATION REQUIRED OF WORKERS IN EDUCATION INDUSTRY CLUSTER

Skill	Jobs 2007	Jobs 2013	Change %	% of 2013 Jobs
Short-term on-the-job training	32,549	39,592	22%	37%
Moderate-term on-the-job training	5,485	6,837	25%	6%
Long-term on-the-job training	1,804	2,003	11%	2%
Work experience in a related occupation	4,257	4,635	9%	4%
Postsecondary non-degree award	1,375	1,793	30%	2%
Associate's degree	3,591	4,319	20%	4%
Bachelor's degree	24,860	24,425	-2%	23%
Bachelor's or higher degree, plus work experience	2,509	2,600	4%	2%
Master's degree +	20,649	20,609	0%	19%
Unidentified	1,112	1,230	n/a	1%
Total	98,191	108,043	10%	100%



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

Top occupations in the cluster are shown in the tables below. Highlighted occupations are Philadelphia 2013 High Priority Occupations important to the Education industry cluster. Wage data are not industry specific and describe all workers in the occupation.

TOP OCCUPATIONS IN EDUCATION

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
Limited Skills Required						
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,541	18%	\$10.32	\$16.61	6.1%
43-9061	Office Clerks, General	6,282	28%	\$8.72	\$14.76	5.8%
25-9041	Teacher Assistants	5,295	7%	\$8.44	\$12.19	4.9%
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	4,288	20%	\$9.18	\$13.78	4.0%
39-9011	Childcare Workers	3,502	27%	\$8.25	\$10.39	3.2%
33-9032	Security Guards	1,341	30%	\$8.40	\$11.17	1.2%
43-9199	Office and Administrative Support Workers, All Other	1,103	55%	\$10.51	\$17.24	1.0%
43-4171	Receptionists and Information Clerks	949	30%	\$9.48	\$14.34	0.9%
35-2012	Cooks, Institution and Cafeteria	799	5%	\$9.42	\$14.08	0.7%
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	788	2%	\$8.24	\$9.70	0.7%
43-4121	Library Assistants, Clerical	761	25%	\$9.21	\$14.21	0.7%
37-3011	Landscaping and Groundskeeping Workers	721	31%	\$9.42	\$14.54	0.7%
43-4111	Interviewers, Except Eligibility and Loan	554	39%	\$11.56	\$16.14	0.5%
39-9041	Residential Advisors	520	41%	\$9.76	\$13.45	0.5%
35-2021	Food Preparation Workers	446	9%	\$8.88	\$11.88	0.4%
43-4051	Customer Service Representatives	430	36%	\$11.28	\$17.30	0.4%
43-4199	Information and Record Clerks, All Other	330	42%	\$14.29	\$19.94	0.3%
41-3099	Sales Representatives, Services, All Other	281	36%	\$13.40	\$28.58	0.3%
41-2011	Cashiers	278	26%	\$8.17	\$9.72	0.3%
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	246	15%	\$8.52	\$10.03	0.2%
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	239	25%	\$10.17	\$14.75	0.2%
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	208	46%	\$9.50	\$12.73	0.2%
43-3021	Billing and Posting Clerks	206	31%	\$12.60	\$17.12	0.2%
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	205	23%	\$12.52	\$19.05	0.2%
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	188	27%	\$8.31	\$12.60	0.2%
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	186	19%	\$8.46	\$9.76	0.2%
37-2012	Maids and Housekeeping Cleaners	182	39%	\$9.51	\$12.25	0.2%
43-4071	File Clerks	175	30%	\$8.92	\$12.51	0.2%
39-9099	Personal Care and Service Workers, All Other	162	30%	\$8.59	\$10.91	0.1%

TOP OCCUPATIONS IN EDUCATION, CONTINUED

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
Some Training or Experience						
49-9071	Maintenance and Repair Workers, General	1,698	27%	\$11.66	\$17.56	1.6%
53-3022	Bus Drivers, School or Special Client	1,412	11%	\$12.05	\$20.08	1.3%
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,322	29%	\$12.41	\$19.49	1.2%
25-3021	Self-Enrichment Education Teachers	1,294	42%	\$9.94	\$17.88	1.2%
43-6011	Executive Secretaries and Executive Administrative Assistants	1,123	(4%)	\$18.41	\$25.27	1.0%
27-2022	Coaches and Scouts	1,080	20%	\$9.22	\$14.98	1.0%
43-1011	First-Line Supervisors of Office and Administrative Support Workers	772	3%	\$16.73	\$27.43	0.7%
11-3011	Administrative Services Managers	445	3%	\$26.51	\$49.01	0.4%
33-3051	Police and Sheriff's Patrol Officers	432	27%	\$24.16	\$30.27	0.4%
13-1199	Business Operations Specialists, All Other	408	3%	\$21.25	\$36.54	0.4%
13-1131	Fundraisers	344	46%	\$14.86	\$25.55	0.3%
31-9092	Medical Assistants	311	41%	\$12.54	\$16.27	0.3%
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	178	(10%)	\$15.48	\$22.90	0.2%
11-9199	Managers, All Other	172	3%	\$28.04	\$49.08	0.2%
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	171	(7%)	\$13.45	\$20.55	0.2%
Some College or Associate's						
25-2011	Preschool Teachers, Except Special Education	2,080	28%	\$8.93	\$12.23	1.9%
15-1151	Computer User Support Specialists	1,213	27%	\$13.64	\$19.76	1.1%
25-4031	Library Technicians	614	33%	\$9.55	\$16.10	0.6%
29-1141	Registered Nurses	451	(3%)	\$25.72	\$36.32	0.4%
27-4011	Audio and Video Equipment Technicians	239	31%	\$8.65	\$18.42	0.2%
31-1014	Nursing Assistants	196	52%	\$11.11	\$14.69	0.2%
15-1152	Computer Network Support Specialists	178	29%	\$19.53	\$30.01	0.2%
39-9031	Fitness Trainers and Aerobics Instructors	177	39%	\$9.34	\$14.88	0.2%
29-2012	Medical and Clinical Laboratory Technicians	129	(2%)	\$12.85	\$17.90	0.1%
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	115	(3%)	\$16.67	\$24.58	0.1%
19-4099	Life, Physical, and Social Science Technicians, All Other	107	(2%)	\$12.92	\$21.81	0.1%
29-2061	Licensed Practical and Licensed Vocational Nurses	103	23%	\$18.74	\$25.11	0.1%

TOP OCCUPATIONS IN EDUCATION, CONTINUED

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
Bachelor's degree or higher						
25-1099	Postsecondary Teachers	13,561	(1%)	\$23.22	\$40.40	12.6%
25-2021	Elementary School Teachers, Except Special Education	5,696	(3%)	\$15.72	\$25.05	5.3%
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	5,632	(5%)	\$19.72	\$28.68	5.2%
25-2022	Middle School Teachers, Except Special and Career/Technical Education	2,042	(3%)	\$19.75	\$27.75	1.9%
21-1012	Educational, Guidance, School, and Vocational Counselors	1,653	6%	\$14.78	\$27.09	1.5%
11-9033	Education Administrators, Postsecondary	1,404	0%	\$27.33	\$57.11	1.3%
25-3098	Substitute Teachers	1,296	(11%)	\$10.08	\$14.01	1.2%
25-2052	Special Education Teachers, Kindergarten and Elementary School	899	(6%)	\$19.26	\$28.15	0.8%
11-9032	Education Administrators, Elementary and Secondary School	897	0%	\$31.57	\$51.10	0.8%
25-2054	Special Education Teachers, Secondary School	868	(11%)	\$19.74	\$29.75	0.8%
25-9031	Instructional Coordinators	812	8%	\$19.50	\$30.27	0.8%
25-3099	Teachers and Instructors, All Other	760	19%	\$9.01	\$21.41	0.7%
25-2012	Kindergarten Teachers, Except Special Education	578	3%	\$14.50	\$22.51	0.5%
11-1021	General and Operations Managers	566	6%	\$28.37	\$56.04	0.5%
13-2011	Accountants and Auditors	532	3%	\$21.15	\$34.46	0.5%
25-4021	Librarians	520	(6%)	\$17.85	\$30.29	0.5%
15-1142	Network and Computer Systems Administrators	493	7%	\$25.37	\$39.00	0.5%
27-3031	Public Relations Specialists	440	7%	\$15.68	\$28.12	0.4%
21-1021	Child, Family, and School Social Workers	409	12%	\$14.53	\$19.88	0.4%
25-2053	Special Education Teachers, Middle School	405	(7%)	\$20.74	\$31.41	0.4%
11-9031	Education Administrators, Preschool and Childcare Center/Program	376	27%	\$15.02	\$21.89	0.3%
25-9021	Farm and Home Management Advisors	327	(2%)	\$16.34	\$28.29	0.3%
19-4021	Biological Technicians	319	(3%)	\$14.46	\$21.09	0.3%
19-3031	Clinical, Counseling, and School Psychologists	271	(3%)	\$21.05	\$35.95	0.3%
15-1121	Computer Systems Analysts	250	1%	\$25.40	\$41.04	0.2%
25-9099	Education, Training, and Library Workers, All Other	245	7%	\$9.35	\$22.36	0.2%
25-2032	Career/Technical Education Teachers, Secondary School	244	(18%)	\$22.06	\$31.64	0.2%
13-1071	Human Resources Specialists	234	1%	\$18.34	\$29.86	0.2%
11-3031	Financial Managers	227	3%	\$29.87	\$63.05	0.2%
11-1011	Chief Executives	225	0%	\$47.64	\$93.14	0.2%
13-1151	Training and Development Specialists	214	12%	\$15.59	\$27.56	0.2%
19-1042	Medical Scientists, Except Epidemiologists	200	12%	\$22.85	\$42.70	0.2%

Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

Notes on Data

We followed industry cluster definitions proposed by the Center for Workforce Information & Analysis. Some industries that have a low number of jobs in Philadelphia County were excluded from the analysis and PA industry clusters were formed in the same way to make comparisons possible.

All the wage, employment, and staffing patterns data in this report come from the EMSI 2013.4 Class of Worker Data. EMSI industry data have various sources including the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. Non-QCEW employee data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics.

Philadelphia Works worked with the Quarterly Workforce Indicators data available through the U.S. Census and defined the industry clusters at the four-digit NAICS code level. An industry group was assigned to a cluster if most of the employment fell in that cluster. Because the data are cyclical, the quarterly data were smoothed using a simple moving average. This report shows the data for the third quarter of 2012 plus three previous quarters.

The PA Employer Database available through the Center for Workforce Information & Analysis was used to report on the employers by size.