UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

High School Self-Assessment Webinar Series

Using Labor Market Information to Analyze Programs of Study and Career Clusters

illinois.edu

RTTT POS Considerations

RTTT districts are **required** to develop **two programs of study** (POS).The two POS may be within one or two RTTT STEM career cluster area(s). It is **recommended** that:

- Districts select at least two RTTT STEM career cluster areas.
- Districts identify Programs of Study that need to be developed or revised. You may select an established POS and work to make it more rigorous and to improve the quality.
- Districts fully engage with at least two STEM Learning Exchanges (as well as postsecondary, business/industry partners).
- Districts develop as many Programs of Study as they determine are necessary for their students within their identified career cluster areas.
- Districts access the resources of the STEM Learning Exchanges and Pathways Resource Center.

March 1, 2013: Deadline for finalized cluster selections

Presenters

Big Picture:

Jason Tyszko
Dep. Chief of Staff
IL Dept. of Commerce and
Economic Opportunity

Subject Matter Expert:

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& Analysis, IDES

ILLINOIS
Pathways
Science, Technology, Engineering & Math

- Improving P-20 education, workforce, and economic development coordination in order to build more effective STEM talent pipelines.
- Provides a strategy to meet the goal of 60 percent of adults attaining a high-quality academic degree or industry recognized credential by 2025.
- Labor market information plays an important role in identifying priority STEM programs for your learners and your community.
- Labor market information is a necessary, but not sufficient component in selecting STEM career clusters and pathways.

Self-Assessment Tool

Self-Assessment Tool
Selecting Career Cluster Areas

Instructions: Complete this checklist for each of the tentative career clusters your school/district is/will be considering. Circle the number that best represents your rating on each indicator. Add the columns in the boxes as indicated.

Career Cluster Area: _____

(Career Cluster Area Title Here)

LABOR MARKET AND EMPLOYER INFORMATION	**Not evident**			**Very evident**
The career cluster area has strong employment demand.	1	2	3	4
The career cluster area is critical to the regional or state economy.	1	2	3	4
Local area employers who would be involved in the development of curriculum in the career cluster area are easily accessible.	1	2	3	4
Local area employers have an interest in participating in a partnership to improve the career cluster area.	1	2	3	4
Section Total				
STUDENT INTEREST	**Not evident**			**Very evident**
Inventories of career interests indicate student interest in the career cluster area.	1	2	3	4
Assessments indicate that interested students will have prerequisite technical skills applicable to the career cluster area.	1	2	3	4
Historical student enrollment data indicate a demand for courses in the career cluster area.	1	2	3	4
Preregistration records indicate demand for course sequences in the career cluster area.	1	2	3	4
Section Total				
DISTRICT CAPACITY	**Not evident**			**Very evident**
Administrators and policy-makers are familiar with the career cluster area.	1	2	3	4
Administrators and policy-makers support the career cluster area.	1	2	3	4

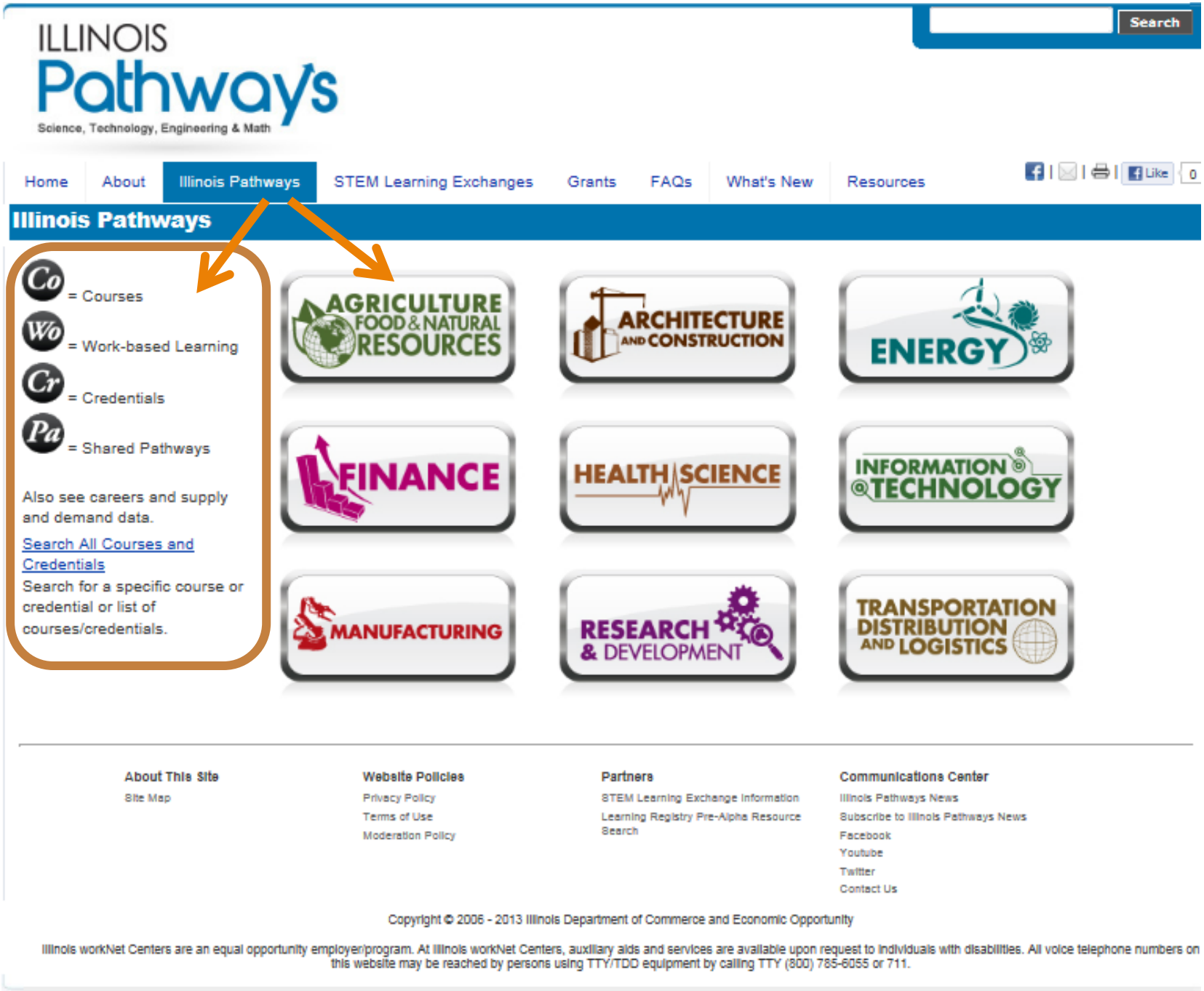
Objective:
Establish a Labor Market Review Process

- Using the Illinois Pathways website
- Understanding your regional economy
- Identifying critical occupations within selected industries
- Locating local employers
- Other useful resources
  - Help Wanted OnLine
  - Assistance: Local Labor Market Economists
- Assembling the data to be useful

1. Read background information and download flyers.
2. See the framework for each of the Illinois Pathways and related careers/labor market information.
3. Connect to STEM Learning Exchanges.
4. Learn about grants.
5. Ask questions and see answers.
6. Subscribe to receive the latest updates.
7. View and download resources and research.

Illinois Pathways

http://www.ilpathways.com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0
Illinois Pathways
Co = Courses
Wo = Work-based Learning
Cr = Credentials
Pa = Shared Pathways
Also see careers and supply and demand data.
Search All Courses and Credentials
Search for a specific course or credential or list of courses/credentials.
AGRICULTURE FOOD & NATURAL RESOURCES
ARCHITECTURE AND CONSTRUCTION
ENERGY
FINANCE
HEALTH SCIENCE
INFORMATION TECHNOLOGY
MANUFACTURING
RESEARCH & DEVELOPMENT
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IDES and Illinois Pathways Websites

- Key sources of state, regional and local:
  - career clusters > pathways > critical occupations ≈ growing, "in-demand" careers
  - industry and occupational employment projections
  - occupational wage data
  - supply-demand analysis
  - postsecondary training programs
  - links to additional resources.

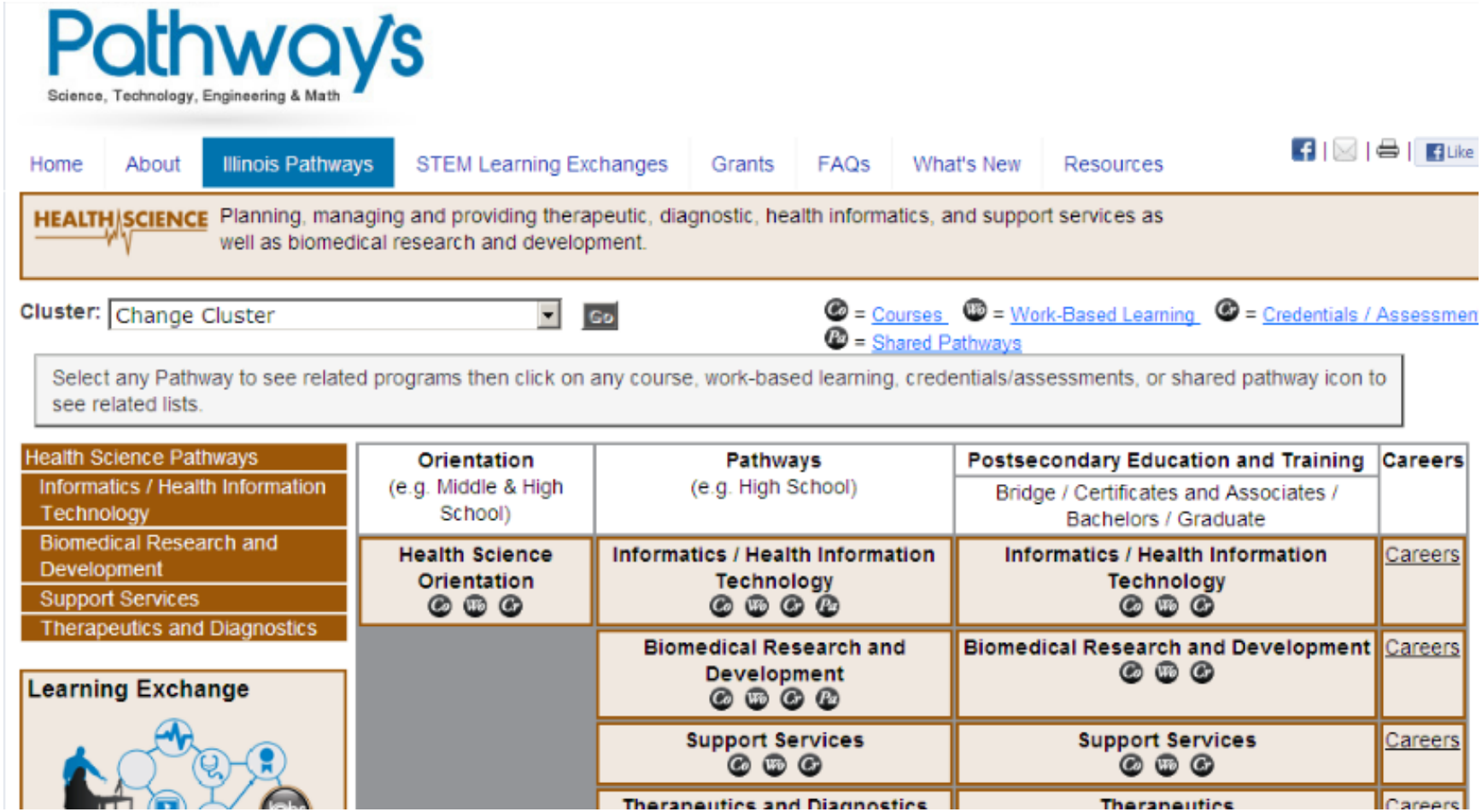
At www.IDES.Illinois.gov under "Workforce Partners" choose "Labor Market Information" or www.IDES.Illinois.gov/LMI

Illinois Pathways Initiative at http://www.ilpathways.com

Illinois Pathway Initiative

- Framework that leads to growing careers, related LMI and postsecondary training programs offering them, and the current supply and demand of trained workers.
  http://www.ilpathways.com

Critical Occupations within Selected Industries/Pathways



Critical Occupations within Selected Industries/Pathways

Home | About | Illinois Pathways | STEM Learning Exchanges | Grants | FAQs | What's New | Resources

HEALTH SCIENCE Planning, managing and providing therapeutic, diagnostic, health informatics, and support services as well as biomedical research and development.

SHOW **Highlights at a Glance**

SHOW **Industry Overview**

Occupational Profile

Occupational Profile - shows relevant occupations with current and projected employment levels, average annual openings, and wage and training level descriptors.

Therapeutics

Standard Occupational Classification (SOC)		Emp.	Employment Change 2008-2018		Average Annual Job Openings			Median	Training/
Code	Title	2008	Number	Percent	Growth	Due To Replacements	Total	Annual Wage	Education Level
00-0000	Total, All Occupations	6,333,193	548,419	8.66%	61,304	144,789	206,093		
Therapeutic Services									
29-1111	Registered Nurses	110,739	23,033	20.80	2,303	1,935	4,238	$63,917	Associate or Bachelor's degree
29-2061	Licensed Practical Nurses	24,693	5,003	20.26	500	773	1,273	$41,851	Postsecondary vocational award
31-1012	Nursing Aides, Orderlies/Attendants	60,488	12,674	20.95	1,267	602	1,869	$23,893	Postsecondary vocational award
31-1011	Home Health Aides	26,331	12,939	49.14	1,294	262	1,556	$20,193	Short-term on-the-job training
29-1051	Pharmacists	10,249	1,153	11.25	115	227	342	$107,312	First professional degree

Critical Occupations within Selected Industries/Pathways

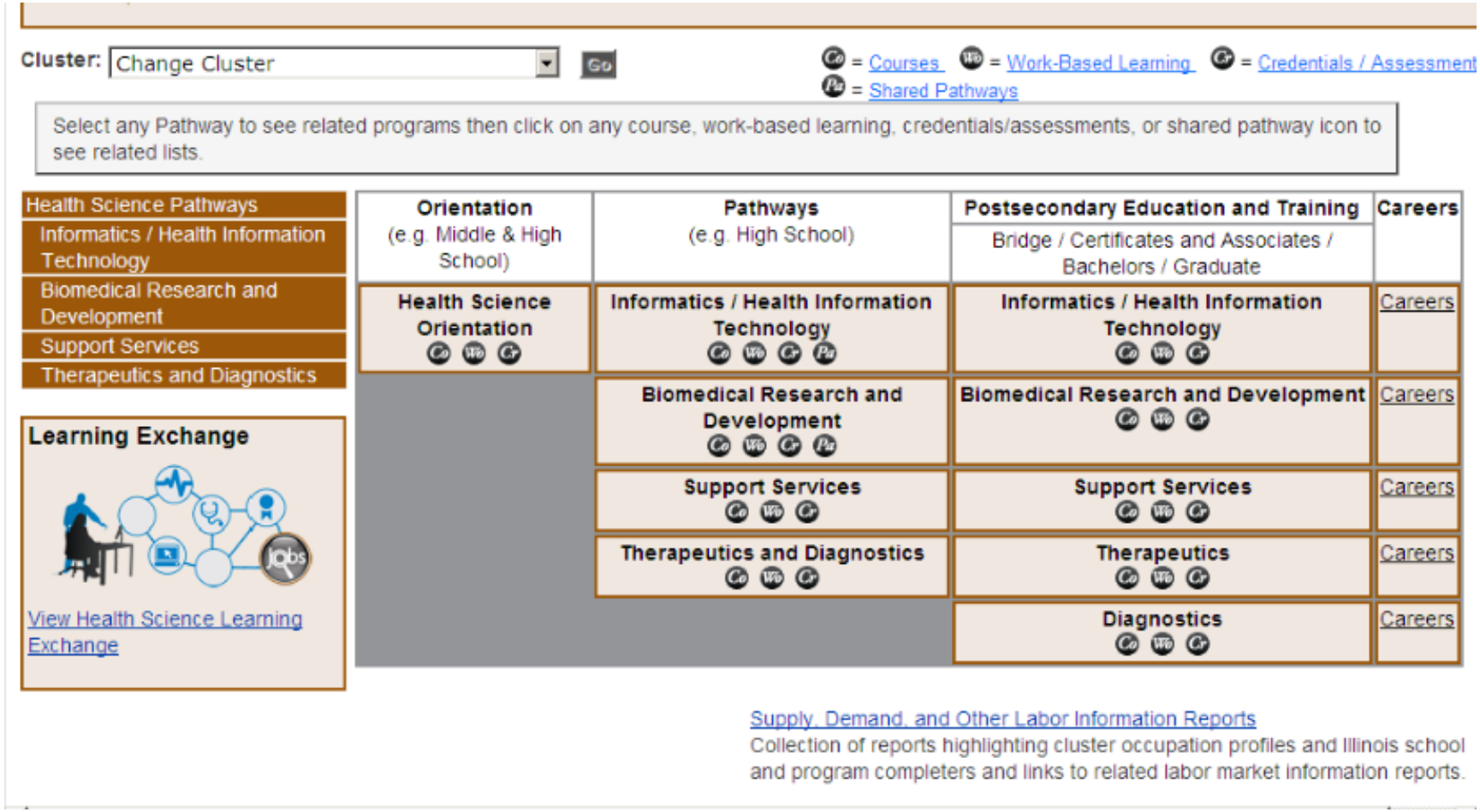
In Illinois, employment of registered nurses is expected to increase much faster than average through 2018. About 4,240 openings are expected annually. Registered nurses is one of the top 50 fastest growing occupations and one of 10 occupations expected to provide the most job openings each year in Illinois

The table below provides information about the number of workers in this occupation in various regions. It also provides information about the expected growth rate and future job openings. Notes

Registered Nurses (CIS 100179)

Location	Employment	&	Growth		>>>>	Annual openings
			This occupation	All occupations		
Illinois	110,739 Very large	&	20.8%	8.7%	>>>>	4,238 Very High
Bloomington Area	2,028 Very large	&	21.7%	9.0%	>>>>	79 Very High
Champaign Area	2,489 Very large	&	20.9%	8.7%	>>>>	96 Very High
Charleston-Effingham-Centralia Area	2,257 Very large	&	20.2%	3.0%	>>>>	85 Very High
Cook County	52,886 Very large	&	19.9%	9.6%	>>>>	1,977 Very High
Decatur Area	1,308 Very large	&	20.0%	6.6%	>>>>	49 Very High
DeKalb-Elgin-Aurora Area	4,640 Very large	&	23.3%	8.9%	>>>>	189 Very High

Critical Occupations within Selected Industries/Pathways



Cluster: Change Cluster Go

Co = Courses Wb = Work-Based Learning Cr = Credentials / Assessment Pa = Shared Pathways

Select any Pathway to see related programs then click on any course, work-based learning, credentials/assessments, or shared pathway icon to see related lists.

Health Science Pathways
- Informatics / Health Information Technology
- Biomedical Research and Development
- Support Services
- Therapeutics and Diagnostics

Learning Exchange

View Health Science Learning Exchange

Orientation (e.g. Middle & High School)	Pathways (e.g. High School)	Postsecondary Education and Training (Bridge / Certificates and Associates / Bachelors / Graduate)	Careers
Health Science Orientation (Co Wb Cr)	Informatics / Health Information Technology (Co Wb Cr Pa)	Informatics / Health Information Technology (Co Wb Cr)	Careers
	Biomedical Research and Development (Co Wb Cr Pa)	Biomedical Research and Development (Co Wb Cr)	Careers
	Support Services (Co Wb Cr)	Support Services (Co Wb Cr)	Careers
	Therapeutics and Diagnostics (Co Wb Cr)	Therapeutics (Co Wb Cr)	Careers
		Diagnostics (Co Wb Cr)	Careers

Supply, Demand, and Other Labor Information Reports
Collection of reports highlighting cluster occupation profiles and Illinois school and program completers and links to related labor market information reports.

Critical Occupations within Selected Industries/Pathways

HEALTH SCIENCE Planning, managing and providing therapeutic, diagnostic, health informatics, and support services as well as biomedical research and development.

Market Information reports describe Illinois employment (occupational demand) and related education output (educational supply) for each Cluster/Pathway -

1. Baseline Supply and Demand Analysis: Occupations with 500+ Annual Job Openings (PDF) - contains the largest occupations by projected annual openings and includes current output (certificates and degrees) from related education programs

2. Baseline Supply Analysis: School Summary Report (PDF) - shows a ranked list by certificate/degree type and size and the number of schools by ranges

3. Baseline Supply Analysis: Ranking of Programs and Schools Report (Excel) (PDF) - shows individual schools within the ranked list by credential type and size

Labor Market Information Reports:

Employment Projections - The recommended report on this page for program of study planning is the *Industry Sector Employment Projections for the Economic Development Regions (EDRs) to 2018.*

Occupational Employment Statistics: Wage Information - See your counties data.

Illinois Employers - Find employers who hire specific occupations locally, regionally, or statewide.

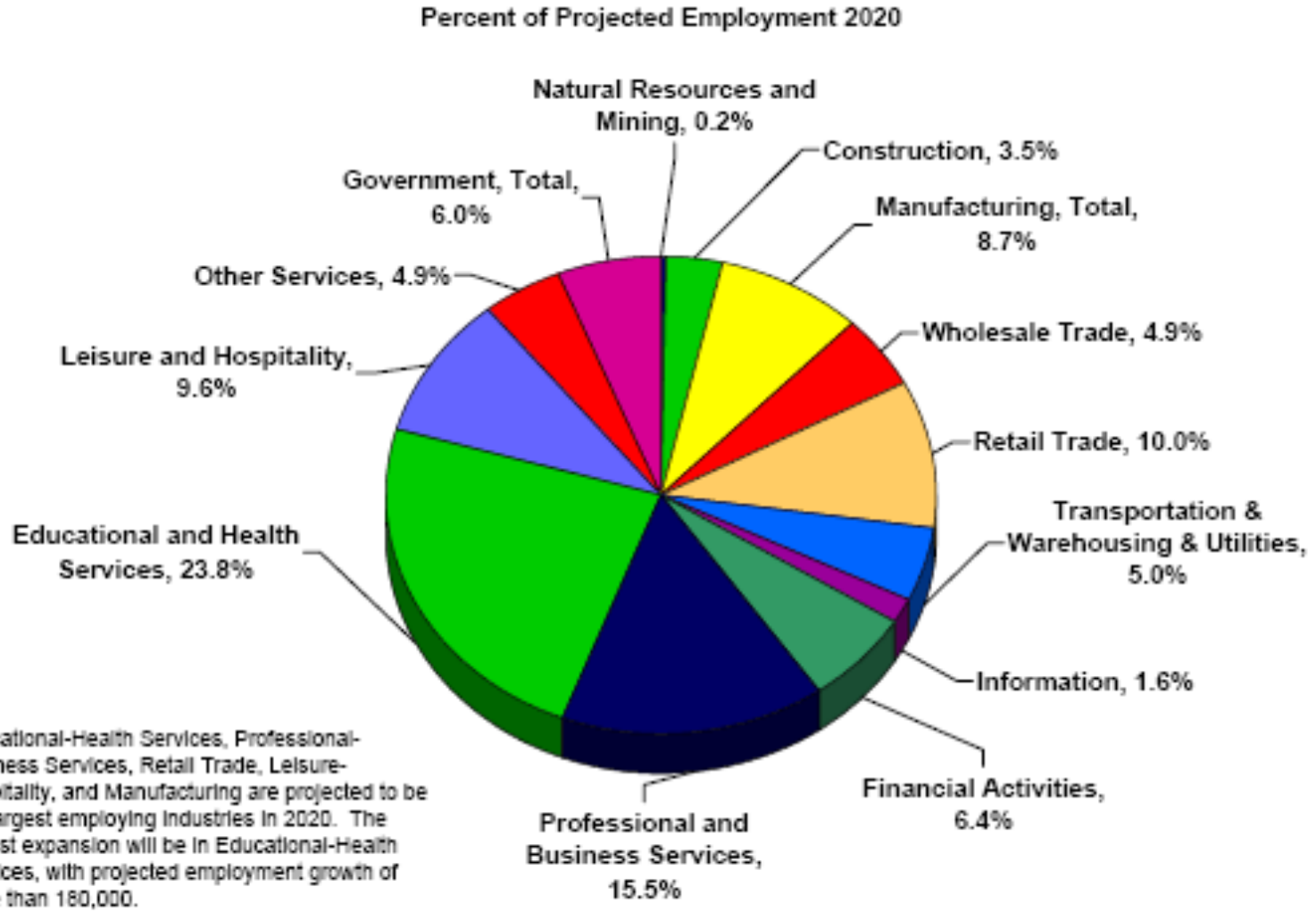
IDES Labor Market Information - Download state, regional, and local reports.

Makeup of the Regional Economy

- Which Industry Super-Sectors / Career Clusters are Critical to the Region/State?

At www.IDES.Illinois.gov under "Workforce Partners" choose "Labor Market Information" or www.IDES.Illinois.gov/LMI;
Then choose "Employment Projections".
You can access industry or occupational reports for Local Workforce Areas;
or charts of Economic Development Regions (EDRs) Industry Employment Projections.
The next two slides compare the concentrations of career cluster employment in the Rockford area to the state.

Industry Employment Projections to 2020 **State of Illinois**



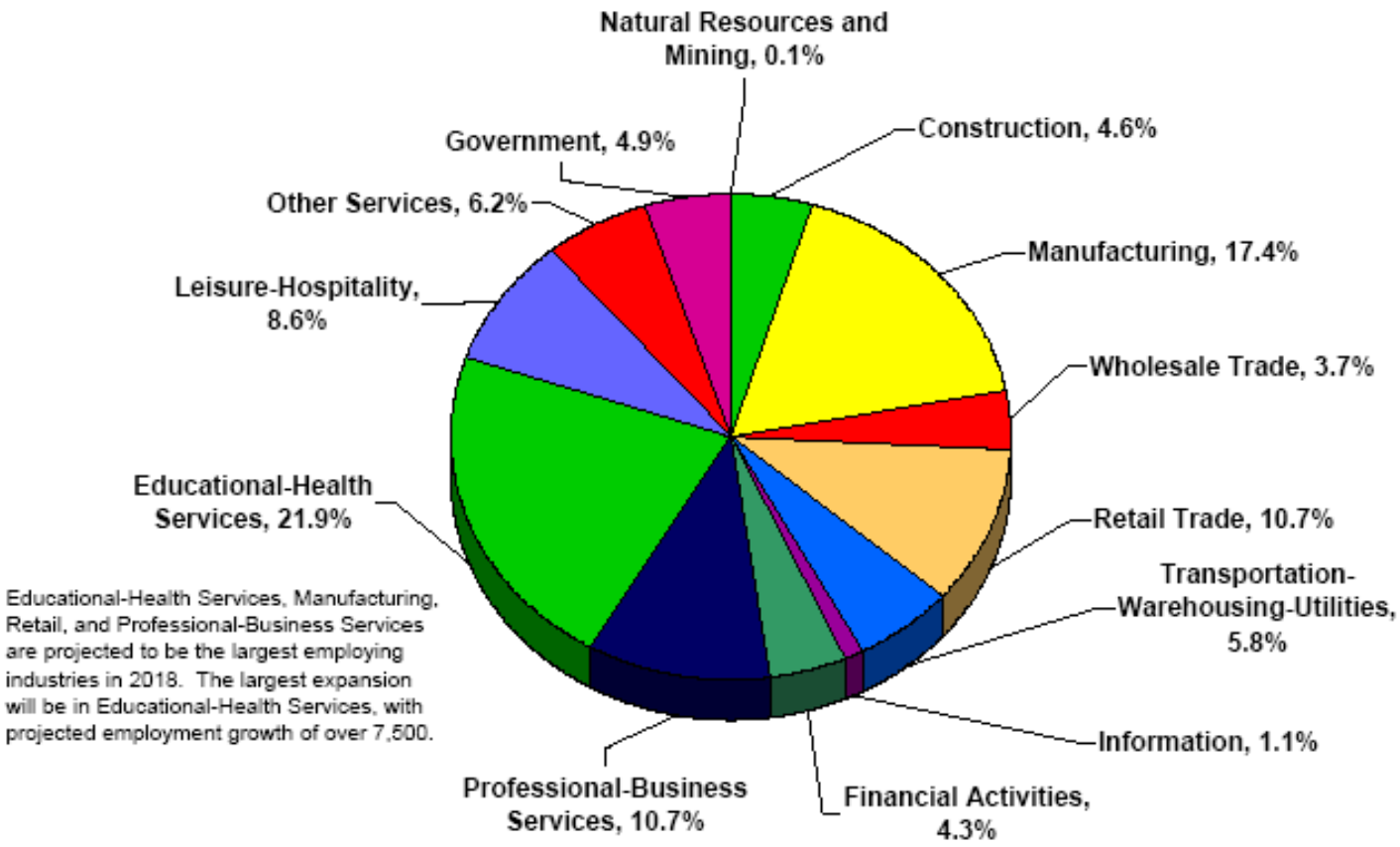
Educational-Health Services, Professional-Business Services, Retail Trade, Leisure-Hospitality, and Manufacturing are projected to be the largest employing industries in 2020. The largest expansion will be in Educational-Health Services, with projected employment growth of more than 160,000.

Illinois Department of Employment Security
Economic Information and Analysis Division

Industry Employment Projections to 2018

Northern Stateline
Economic Development Region

Percent of Projected Employment 2018



Educational-Health Services, Manufacturing, Retail, and Professional-Business Services are projected to be the largest employing industries in 2018. The largest expansion will be in Educational-Health Services, with projected employment growth of over 7,500.

Illinois Department of Employment Security
Economic Information and Analysis Division

Makeup of the Regional Economy

- Local Industry Picture

ADAMS COUNTY

	Number of Units	Number of Employed	Wages ($1,000s)
Total	**1,883**	**33,304**	**$300,619**
Private Sector (NAICS)	**1,787**	**29,113**	**$262,791**
Natural Resources and Mining	**21**	**294**	**$3,030**
Construction	**252**	**1,231**	**$11,046**
Manufacturing	**95**	**5,077**	**$61,740**
Trade, Transportation, and Utilities	**484**	**7,735**	**$55,735**
Wholesale Trade (42)	136	1,870	$17,534
Retail Trade (44,45)	279	4,805	$26,701
Transportation & Warehousing (48,49)	65	953	$9,620
Utilities (22)	4	107	$1,879
Information	**25**	**525**	**$4,392**
Financial Activities	**168**	**2,275**	**$22,485**
Professional and Business Services	**225**	**2,183**	**$23,939**
Professional, Scientific & Technical Services	131	661	$7,619
Management of Companies & Enterprises (55)	5	82	$2,303
Administrative & Support & Waste Mngmt. (56)	89	1,440	$14,017
Educational and Health Services	**139**	**5,589**	**$64,021**
Educational Services (61)	19	511	$4,070
Health Care & Social Assistance (62)	120	5,078	$59,951
Leisure and Hospitality	**169**	**2,980**	**$9,351**

Critical Occupations within Selected Industries/Pathways

- For a simple quick read on an occupation with references to national information, and related business associations or labor organizations, visit www.IDES.Illinois.gov/careerinfo , the Illinois Career Information System (CIS) or Illinois Pathways Initiative at http://www.ilpathways.com .
- Employment projections that offer state and local occupational growth trends. At www.IDES.Illinois.gov/LMI choose "**Employment Projections**".
- Occupational Wage Data is available for the State, Metro Areas, Economic Development Regions, Local Workforce Areas, and Counties
  At www.IDES.Illinois.gov under "Workforce Partners" choose "Labor Market Information" and then "**Occupational Wages**". Hourly and Annual Wage rates for Entry, Median and Experienced levels.

Identify Local Employers/Partners

Accessing Employer Lists from the Illinois Workforce Info Center

The information contained in the employer search file is from InfoUSA and will give you company name, address, contact information, industry type and the number of employees in the firm. Visit the Illinois Workforce Info Center at https://illinois.virtuallmi.com/

Identify Local Employers/Partners

Contact Information

Vision Logistics Inc

Contact:	Gary De Young
Title:	President
Telephone:	(815) 933-8012
Web Site:	VISIONLOGISTICSINC.COM

Address Information

Physical Address:	1199 E 5000N Rd Bourbonnais, IL 60914-4229

Other Information

Business Description:	Trucking
Employee Size Range:	50-99
SIC Code(s):	4213 - Trucking, Except Local
NAICS Code(s):	484230 - Other Specialized Trucking, Long-Distance
Location Type:	single location firm
Sector Entity:	Private
Employer's Last Update:	12/2011

Other Resources

Help Wanted OnLine (HWOL):

The Conference Board Help Wanted OnLine® Data Series (HWOL) captures job postings from over 16,000 Internet job boards.

At www.IDES.Illinois.gov/LMI; choose "Help Wanted OnLine (HWOL) Reports".

You can access tables of most frequent online job ads and employers for EDRs.

Contact your IDES Local Labor Market Economist (LME) for customized reports.

Economic Development Region #9 – Southwestern Illinois / Alton-Belleville Area

Job Opportunties by Major Occupational Group	Online Job Ads
Sales and Related Occupations	758
Healthcare Practitioners and Technical Occupations	498
Computer and Mathematical Occupations	439
Office and Administrative Support Occupations	394
Food Preparation and Serving Related Occupations	327
Transportation and Material Moving Occupations	279
Management Occupations	254
Business and Financial Operations Occupations	162
Installation, Maintenance, and Repair Occupations	154
Architecture and Engineering Occupations	128
Production Occupations	113
Personal Care and Service Occupations	107
Healthcare Support Occupations	87
Education, Training, and Library Occupations	80
Arts, Design, Entertainment, Sports, and Media Occupations	68
Community and Social Services Occupations	51
Building and Grounds Cleaning and Maintenance Occupations	44
Construction and Extraction Occupations	43
Protective Service Occupations	26

Top 20 Employers with Online Job Ad Openings	Online Job Ads
AT&T	55
Community Health Systems	50
Bankers Life and Casualty Company	45
Pizza Hut	44
Lowe's	36
St. Elizabeth's Hospital	35
AT&T Retail	34
Gateway Regional Medical Center	32
Home Depot	29
H&R Block	29
CVS Caremark Stores	26
Regions Financial	25
General Dynamics	25
Southern Illinois University Edwardsville	24
HSHS Medical Group	22
U.S. Bank	21
Toys"R"Us/Babies"R"Us	21
Ameren	20

Assembling the Data to be Useful

What a template might look like: _____

Area

Career Cluster: _____

Industry Employment Share of Regional Economy is ____% compared to State at ____%

Career Pathway: _____

Number of firms____ Employment _____ Share of Area Wages ____% of total

Career Program of Study: _____

* Critical Occupations____ _____ __Employment /Growth/AAJO _____

_____

Median Annual Wages _$_____

* Critical Occupations____ _____ __Employment /Growth/AAJO _____

_____

Median Annual Wages _$_____

Partners/Large Local Employers: (with recent online job ads)

_____ ( )

____ _____ _____ ( )

_____ _____ ( )

Assembling the Data to be Useful

What a template might look like: Kane-DeKalb-Kendall Counties Area

Career Cluster: _Manufacturing (based upon input from local leaders)
Industry Employment Share of Regional Economy is 8.3% compared to State at 8.7%

Career Pathway: _Automation
Number of firms 1,185 Employment 38,337 Share of Area Wages 26.2% of total

Career Program of Study: _Maintenance Installation & Repair

* Critical Occupations: _General Maintenance & Repair Workers
Employment /Growth/AAJO _2,532 / 7.1% / 57 Median Annual Wages _$39,952

* Critical Occupations: Industrial Machinery Mechanics
Employment /Growth/AAJO _484 / 10.5% / 12 Median Annual Wages _$48,004

Partners/Large Local Employers: (with recent online job ads)
Caterpillar, Inc. [Montgomery] (48)
Bison Gear and Engineering [St. Charles] (17)
Elgin Industries [South Elgin] (15)

Need Assistance?
Local Labor Market Economists

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Questions and Answers

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Thank you for your participation.

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