

IN-DEMAND JOBS OF THE FUTURE

CONNECTING TRAINING TO JOBS



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COMMUNITY COLLEGES

IDENTIFYING IN-DEMAND OCCUPATIONS AND TRAINING

- Industry Projections (Short Term)
- Occupational Projections (Short & Long Term)
- Iowa Wages
- Training & Education Needs



POVERTY LEVEL & LIVING WAGE INFORMATION

Poverty Level Wages

by Household Size:

1 - \$11,670

2 - \$15,730

3 - \$19,790

U.S. Department of Health &
Human Services Poverty
Measures

Living Wages

Polk County - Example:

1 Adult - \$18,116

2 Adults - \$29,744

1 Adult, 1 Child - \$40,664

Provides the minimum
estimate of the cost of living
for low wage families



INDUSTRIES WITH THE LARGEST GROWTH STATEWIDE (2013-2015)

Educational Services (3,390 jobs)

Specialty Trade Contractors (2,370)

Food Services & Drinking Places (2,255)

Ambulatory Health Care Services (2,065)

Social Assistance (1,980)

Administrative Support Services (1,940)

Professional, Scientific & Technical (1,445)

Credit Intermediation & Related Activities (1,415)

Fabricated Metal Manufacturing (1,370)



IN-DEMAND OCCUPATIONS EDUCATION & IOWA WAGES (EXAMPLES)

Educational Services:

Teachers (not specified)

Bachelor's or above

Average: \$47,172

Office Support

Associate's degree or

Certificate

Average: \$31,779

Financial & Business Operations

Bachelor's degree

Average: \$58,601

Teachers Assistants

Some College

Average: \$22,095



IN-DEMAND OCCUPATIONS EDUCATION & IOWA WAGES

Specialty Trade:

Construction & Extraction

High School/Certificate

Average: \$40,573

Installation & Maintenance

High School/Certificate

Average : \$36,180

Electricians

Certificate/Training

Average : \$48,458

Office Support – same as previous

Pipelayers & Plumbers

Certificate/Training

Average : \$48,683



COMMUNITY COLLEGES

IN-DEMAND OCCUPATIONS EDUCATION & IOWA WAGES

Accommodation & Food Service:

Food Preparation

Less than High School

Average: \$19,707

Fast Food

Less than High School

Average: \$17,839

Waiters & Waitresses

High School

Average: \$19,295

Turnover rate ranges from 15% to 17% in this industry. Additionally, over 15% of the workforce is between 14 and 18 years of age and another 9% over age 55



COMMUNITY COLLEGES

FASTEST GROWING OCCUPATIONAL GROUPS BY PERCENTAGE IN IOWA (2010-2020)

	<u>Industry</u>
○ Computer & Mathematical 2.5% (1,300 Annual Openings)	Everywhere
○ Healthcare Support 2.5% (1,875)	Ambulatory Health Care Services
○ Personal Care & Service 2.4% (2,680)	Ambulatory Health Care Services
○ Healthcare Practitioners & Technical 2.3% (3,500)	Ambulatory Care
○ Community & Social Services 2.2% (1,090)	Social Assistance
○ Construction & Extraction 2.2% (3,240)	Specialty Trade
○ Business & Financial Operations 2.0% (2,850)	Everywhere



COMPUTER & MATHEMATICAL

IOWA AVERAGE ANNUAL GROWTH RATE 2.5%

Represents 7,290 job increase from 2010-2020

- Computer Systems Analyst – 3.4% (1,700)
- Computer Support Specialists – 2.2% (1,045)
- Computer Software Engineers, Systems Software – 3.4% (905)
- Network & Computer Systems Administrators – 2.8% (895)
- Computer Software Engineers, Applications – 2.3% (825)
- Computer Programmers – 2.0% (805)



COMMUNITY COLLEGES

COMPUTER & MATHEMATICAL REGIONAL GROWTH RATE COMPARISON

- Des Moines Region – 2.9%
 - Computer Systems Analyst – 3.7% (200 total jobs)
 - Computer Programmers – 1.3% (70 total jobs)
- Northwest Iowa Region – 1.8%
 - Computer Systems Analyst – Not listed
 - Computer Programmers – Not listed
- Southeast Iowa Region – 2.3%
 - Computer Systems Analyst – 3.6% (5 total jobs)
 - Computer Programmers – 2.5% (5 total jobs)



REGIONAL COMPARISONS

IMPORTANCE OF RESEARCHING BY GEOGRAPHY



Workforce Regions

INDUSTRIES WITH THE LARGEST GROWTH DES MOINES REGION (2013-2015)

Percent Growth:

Other Information Services (11.1% = 15 jobs)

Support Activities for Transportation (9.0% = 70 jobs)

Job Growth – Number:

Educational Services (1.9% = 880 jobs)

Credit Intermediation & Related (3.2% = 765 jobs)

Specialty Trade Contractors (6.4% = 690 jobs)

Food Services & Drinking Places (2.4% = 640 jobs)



COMMUNITY COLLEGES

TOP OCCUPATIONAL CATEGORIES

DES MOINES REGION ANNUAL JOB GROWTH

Office & Administrative Support = 2,780

Sales & Related = 2,135

Food Preparation & Service = 1,485

Business & Financial Operations = 1,225

Transportation & Material Moving = 1,305

Management = 1,010

Healthcare Practitioners & Technical = 930



HIGHEST ANNUAL JOB OPENINGS

DES MOINES REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Does Not Require Post-secondary Training

■ Retail Sales = 580	\$26,631 *
■ Cashier = 500	\$19,013 *
■ Customer Service Representative = 485	\$32,443
■ Waiters & Waitresses = 380	\$19,566 *
■ Office Clerks = 355	\$30,879

*Indicates below living wage for 2 adult household in Polk County



OCCUPATIONAL GROWTH BY REGION

DES MOINES REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Require Some Post-secondary Training

■ Registered Nurse = 335	\$55,231
■ Computer Systems Analyst = 200	\$78,602
■ Accountants & Auditors = 175	\$67,915
■ Nursing Aides & Orderlies = 130	\$21,559 *
■ Elementary School Teachers = 125	\$51,079
■ Computer Support Specialists = 100	\$45,151

*Indicates below living wage for 2 adult household in Polk County



TOP CATEGORIES ANNUALLY NORTHWEST REGION BY NUMBER

Office & Administrative Support = 315

Sales & Related = 310

Production = 245

Management = 235

Transportation & Material Moving = 190

Education & Training = 160

Construction & Extraction = 135



HIGHEST ANNUAL JOB OPENINGS

NORTHWEST REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Does Not Require Post-secondary Training

■ Cashier = 110	\$18,575 *
■ Retail Sales = 75	\$25,056 *
■ Home Health Aides= 70	\$19,896 *
■ Office Clerks = 60	\$26,388 *
■ Waiters & Waitresses = 60	\$19,927 *

*Indicates below living wage for 2 adult household in O'Brien County (\$26,707)



OCCUPATIONAL GROWTH BY REGION

NORTHWEST REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Require Some Post-secondary Training

■ Heavy & Tractor Trailer Truck Drivers = 65	\$34,666
■ Registered Nurse = 50	\$79,718
■ Nursing Aides & Orderlies = 20	\$20,269 *
■ Elementary School Teachers = 20	\$41,406
■ Middle School Teachers = 20	\$45,859
■ Licensed Practical Nurse = 15	\$36,252
■ Community & Social Service Specialists = 15	\$25,137 *

*Indicates below living wage for 2 adult household in O'Brien County (\$26,707)



TOP CATEGORIES ANNUALLY SOUTHEAST REGION BY NUMBER

Production = 275

Office & Administrative Support = 245

Transportation & Material Moving = 230

Food Preparation & Serving = 160

Healthcare Practitioners & Technical = 120

Management = 110

Construction & Extraction = 100



COMMUNITY COLLEGES

HIGHEST ANNUAL JOB OPENINGS

SOUTHEAST REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Does Not Require Post-secondary Training

■ Cashier = 75	\$18,588 *
■ Retail Sales = 55	\$24,967 *
■ Waiters & Waitresses = 50	\$17,477 *
■ Childcare Workers = 40	\$17,139 *
■ Team Assemblers = 35	\$32,167

*Indicates below living wage for 2 adult household in Lee County (\$27,498)



OCCUPATIONAL GROWTH BY REGION

SOUTHEAST REGION – ANNUAL OPENINGS

Highest Number of Openings & Average Salary by Occupation
Require Some Post-secondary Training

■ Heavy & Tractor-Trailer Truck Drivers = 70	\$28,390
■ Registered Nurse = 45	\$52,298
■ Elementary School Teachers = 30	\$50,459
■ Nursing Aides & Orderlies = 20	\$22,640 *
■ Licensed Practical Nurse = 15	\$35,478
■ First-line Supervisors of Production = 10	\$49,160

*Indicates below living wage for 2 adult household in Lee County (\$27,498)



OPPORTUNITIES FOR TRAINING

Workforce Training & Economic Development (WTED) Fund supports programs to train Iowans

Source for:

- New program innovation
- New program development
- Capacity building for career & technical education (CTE)



COMMUNITY COLLEGES



SOURCE FOR CONNECTING CAREERS TO TRAINING

How do I put it all together?



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MYSKILLS MYFUTURE



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Translate:

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- 1 Tell us a job you've had.
- 2 We'll find careers with similar skills.
- 3 Pick a career and explore!

Build a bridge to your new career.

Enter your current or past job.

FIND MY CAREER MATCHES

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JOB LISTINGS FOR RELATED JOBS

Translate:

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Start **Career Matches**

Narrow Your Results

The careers below may be a good match for
Registered Nurses
United States

Choose a Location **Within** **Distance**

Best Match **# Job Listings** **Typical Education**

Critical Care Nurses **Bright Outlook**
Provide advanced nursing care for patients in critical or coronary care units.
[Compare Skills](#)
[See Job Listings](#)
[Find Businesses](#)

Licensed Practical and Licensed Vocational Nurses
Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing
[Compare Skills](#)
[See Job Listings](#)
[Find Businesses](#)

Distance

Typical Education

Postsecondary non-degree award
[Find Training](#)



BEST MATCH FOR LOCATION

The jobs listed are those that best match

“Registered Nurse”

Website lists:

- Job listings
- Business location
- Typical wage
- Typical education/training

mySkills myFuture
a careeronestop website
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Translate: Select Language

Start Career Matches

Narrow Your Results

The careers below may be a good match for
Registered Nurses
Within 50 miles of ZIP Code 50317

Choose a Location: 50317 Within: 50 miles GO

Best Match	# Job Listings	Typical Wage	Typical Education
Critical Care Nurses Provide advanced nursing care for patients in critical or coronary care units. Compare Skills	96 See Job Listings Find Businesses	HOURLY ANNUAL \$22.65 - \$30.75	Associate's degree Find Training
Licensed Practical and Licensed Vocational Nurses Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing Compare Skills	14 See Job Listings Find Businesses	\$15.79 - \$20.96	Postsecondary non-degree award Find Training



DESCRIPTION & DETAILS



Translate:

A A A A

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Start > Career Matches > Selected Career > **Go To Training** > Go To Compare Skills > Go To Jobs > Go To Employers

Occupation information for **Critical Care Nurses**
Within 50 miles of ZIP Code 50317

Go To Training **Go To Compare Skills** **Go To Jobs** **Go To Employers**

Occupation information for **Critical Care Nurses**
Within 50 miles of ZIP Code 50317

Choose a Location **Within**

DESCRIPTION
Provide advanced nursing care for patients in critical or coronary care units.
[Compare Skills](#)

DETAILS
Currently Employed: 32,456
Yearly Projected Openings: 1,350
Typical Hourly Wage: \$22.65 - \$30.75
Typical Annual Salary: \$47,100 - \$64,000
[See Job Listings \(96\)](#)
[Find Businesses](#)

TYPICAL TRAINING
Typical education needed for entry: Associate's degree
Typical work experience needed for a job in this occupation: None
Typical on-the-job training once you have a job in this occupation: None
[Find Training](#)



TASKS & TOOLS

- Typical job duties
- Tools used to perform the job
- Technology to use
- Additional career exploration information

TYPICAL JOB DUTIES

- Assess patients' pain levels or sedation requirements.
- Monitor patients for changes in status and indications of conditions such as sepsis or shock and institute appropriate interventions.
- Administer medications intravenously, by injection, orally, through gastric tubes, or by other methods.
- Set up and monitor medical equipment and devices such as cardiac monitors, mechanical ventilators and alarms, oxygen delivery devices, transducers, or pressure lines.
- Evaluate patients' vital signs or laboratory data to determine emergency intervention needs.
- Prioritize nursing care for assigned critically ill patients, based on assessment data or identified needs.
- Document patients' medical histories and assessment findings.
- Conduct pulmonary assessments to identify abnormal respiratory patterns or breathing sounds that indicate problems.
- Advocate for patients' and families' needs, or provide emotional support for patients and their families.
- Administer blood and blood products, monitoring patients for signs and symptoms related to transfusion reactions.

TOOLS & TECHNOLOGY

Tools:

- Cardiac output CO monitoring units or accessories
- Cardiac ultrasound or doppler or echo units or cardioscopes
- Medical staff isolation or surgical masks
- Medical suction or vacuum appliances
- Therapeutic heating or cooling blankets or drapes

Technology:

- Information retrieval or search software
- Internet browser software
- Medical software

MORE INFO

- [Explore Careers](#)
- [Salary Info](#)
- [Resumes + Interviews](#)
- [Employer Research](#)



TRAINING & CERTIFICATION

- Institutions that offer programs
- Distance from your Zipcode
- Program information
- Institution links

Other ways to prepare for this career.

Certifications

School Name	Distance	Program Name	Program Length	Award Level
Des Moines Area Community College Ankeny, IA 515-964-6241 www.dmacc.edu Admissions Financial Aid Degrees: Undergraduate Type: Public, 2-year School Size: 20,000 and above	7.60 miles	Registered Nursing/ Registered Nurse	2 years	Associate's degree
Grand View University Des Moines, IA 515-263-2800 www.grandview.edu Admissions Financial Aid Degrees: Undergraduate Graduate Type: Private not-for-profit, 4-year or above School Size: 1,000 - 4,999	3.60 miles	Clinical Nurse Leader Registered Nursing/ Registered Nurse	More than 4 years 4 years	Master's degree Bachelor's degree



COMPARE WAGES, SKILLS & TRAINING

Start > Career Matches > Selected Career > Compare Skills

Compare Registered Nurses &

Critical Care Nurses

Within 50 miles of ZIP Code 50317

Choose a Location

50317

Comparison

Registered Nurses

SALARY

View the mid-level salary in both your current job and your selected occupation. (Annual salaries apply to people who work full-time year-round.)

Registered

SIMILAR SKILLS & KNOWLEDGE

These skills are commonly used in both your current job and your selected occupation.

Psychology
Knowledge of human behavior and interests; learning and motivation and treatment of behavioral and

Therapy and Counseling
Knowledge of principles, methods, and rehabilitation of physical and mental

Coordination
Changing what is done based on

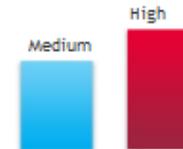
Comparison

Registered Nurses

Critical Care Nurses

SKILLS & KNOWLEDGE GAPS

These are areas where you might have skill gaps. People working in your selected job generally need higher levels in these skill and knowledge areas than people working in your current job.



Biology
Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

[Find Training for this Gap](#)

TYPICAL LEVEL OF TRAINING

See how much education people typically have in your selected job, and then use the link to find training programs in your local area.

Associate's degree Associate's degree

[Find Training for this Occupation](#)

LICENSING

Many states require licenses for certain jobs. See if your selected occupation requires a license and if so, follow the link to find information for your state.

No license required in IA No license required in IA

Check with your state for more information.

CERTIFICATION

Certifications help you get ahead or qualify for different jobs. You usually have to pass a test to earn one, and then you can show employers that you have the skills and knowledge needed to do well on the job.

33 related certifications 33 related certifications

[Find Certifications](#)



COMMUNITY COLLEGES

EMPLOYERS

- Employer Name
- Distance from your residential ZIP Code
- Description of the business
- What industry
- Range of number of employees
- “Narrow Your Results” with button at the top



1,218 businesses found for
Critical Care Nurses
 Within 50 miles of ZIP Code 50317

[▶ Narrow Your Results](#)

Choose a Location Within

Employer Name	Distance	Description	Industry	Size
Bright Kavanagh House Easton Blvd Des Moines,IA	0.3 miles	Hospices	Nursing Care Facilities (Skilled Nursing Facilities)	10-99 employees
Primary Health Care East Side E 29th St Des Moines,IA	1.0 miles	Physicians & Surgeons	Offices of Physicians	10-99 employees
Ihs Hospice E Douglas Ave Des Moines,IA	1.1 miles	Hospices	Nursing Care Facilities (Skilled Nursing Facilities)	10-99 employees
Taylor House E Douglas Ave Des Moines,IA	1.1 miles	Hospices	Nursing Care Facilities (Skilled Nursing Facilities)	10-99 employees
Advanced Foot & Ankle Clinic E Euclid Ave # A Des Moines,IA	1.3 miles	Physicians & Surgeons	Offices of Physicians	5-9 employees
Spartan Staffing E Euclid Ave Des Moines,IA	1.3 miles	Employment Agencies & Opportunities	Employment Services	1-4 employees
Concentra Urgent Care Dixon St # E Des Moines,IA	1.8 miles	Medical Centers	General Medical and Surgical Hospitals	10-99 employees
Health South Medical Ctr Dixon St # E Des Moines,IA	1.8 miles	Hospitals	General Medical and Surgical Hospitals	100-499 employees
Magers Edward, DO Dixon St # E Des Moines,IA	1.8 miles	Physicians & Surgeons	Offices of Physicians	1-4 employees



JOBS

- Where is the job
- When it was posted
- Job Title
- Apply for the job directly from the website.

Start > Career Matches > Selected Career > Jobs > Go To Employers > Go To Training > Go To Compare Skills

96 job listing(s) found for
Critical Care Nurses
 Within 50 miles of ZIP Code 50317

Choose a Location Within GO

Job Title	Company	Location	Date Posted
Acute Dialysis Registered Nurse (RN) / Part Time - Ames Mary Greeley Acute / Des Moines Acute	DaVita Federal Contractor	Ames, IA	02/08/2014
Childbirth Educator PRN (5p-9p)	Catholic Health Initiatives Federal Contractor	Des Moines, IA	03/04/2014
Clinician, RN	Healthways, Inc. Federal Contractor	Des Moines, IA	02/05/2014
Clinician, RN	Iowa Employer	Des Moines, IA	02/25/2014
CMA/LPN/RN - Mercy East Clinic - FT .5 (1p-9p)	Catholic Health Initiatives Federal Contractor	Pleasant Hill, IA	03/04/2014
Inpatient Services RN	Fresenius Medical Care	Des Moines, IA	03/07/2014
Inpatient Services RN	Fresenius Medical Care	Des Moines, IA	03/07/2014



RESOURCES

Poverty Level 2014:

<http://aspe.hhs.gov/poverty/14poverty.cfm>

Living Wage Calculator by State & County:

<http://livingwage.mit.edu/states/19/locations>

Occupational Network – Knowledge, Skills & Wages:

<http://www.onetonline.org>

Turnover & Employment by Age & Industry:

http://lehd.ces.census.gov/applications/qwi_online/

Occupational & Industry Projections and Wage Survey:

<http://iwin.iwd.state.ia.us/iowa/OlmisZine>

Career and Training Exploration – My Skills My Future

www.myskillsmyfuture.org



COMMUNITY COLLEGES

QUESTIONS

Contact Information:

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COMMUNITY COLLEGES