

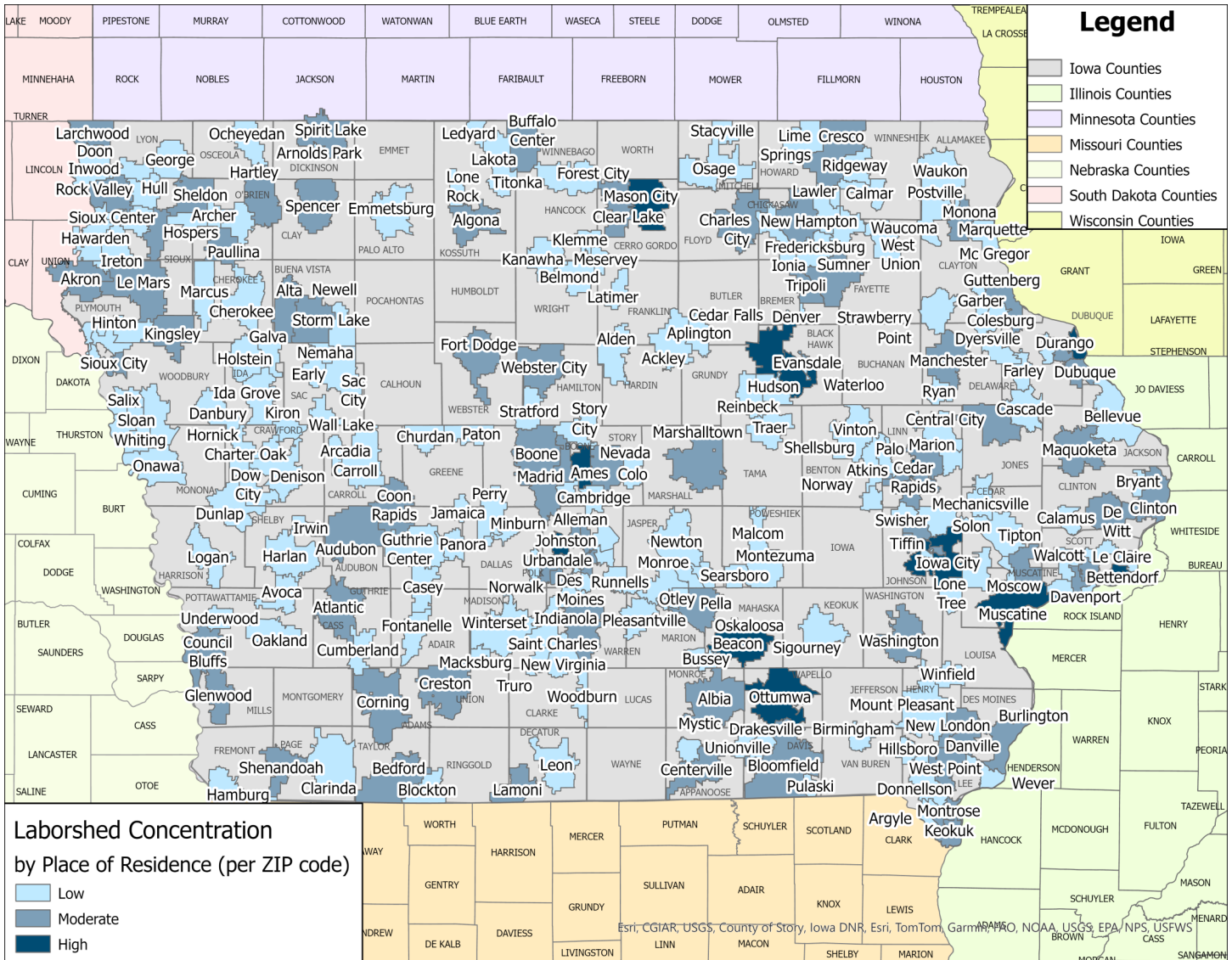
LABOR CHARACTERISTICS

BIOTECHNOLOGY



STATE OF IOWA LABORSHED AREA

**CONCENTRATION OF RESPONDENTS WITHIN THE LABORSHED AREA
WITH TRANSFERABLE EXPERIENCE/SKILLS BY PLACE OF RESIDENCE**



Workers who have transferable experience/skills in the industry are currently commuting an average of 15 miles one way for work. Those who are likely to change/accept employment are willing to commute an average of 29 miles one way for the right employment opportunity.

FOR MORE INFORMATION REGARDING THE STATE OF IOWA REGIONAL LABORSHED, CONTACT:



Iowa Workforce Development
Labor Market Information Division
1000 E. Grand Avenue, Des Moines, Iowa 50319
Phone: (515) 281-3035 | Email: laborshed.studies@iwd.iowa.gov
<https://workforce.iowa.gov/laborshed>

LABOR CHARACTERISTICS



BIOTECHNOLOGY

ESTIMATED AVAILABLE LABOR PER OCCUPATIONAL CATEGORY:

- Agricultural Engineers - 0.4%
- Animal Scientists - 0.2%
- Architectural and Engineering Managers - 2.8%
- Biological Scientists, All Other - 0.4%
- Biological Technicians - 0.4%
- Biomedical Engineers - 0.2%
- Buyers and Purchasing Agents, Farm Products - 0.4%
- Chemical Engineers - 0.4%
- Chemical Technicians - 0.4%
- Chemists - 0.2%
- Conservation Scientists - 1.1%
- Engineering Technicians, Except Drafters, All Other - 1.1%
- Engineers, All Other - 9.2%
- Environmental Engineering Technicians - 0.4%
- Environmental Engineers - 0.4%
- Environmental Scientists and Specialists, Including Health - 0.9%
- Farmers, Ranchers, and Other Agricultural Managers - 24.9%
- Foresters - 0.2%
- Industrial Engineers - 2.8%
- Industrial Production Managers - 10.5%
- Life, Physical, and Social Science Technicians, All Other - 4.5%
- Materials Scientists - 0.4%
- Medical Scientists, Except Epidemiologists - 0.9%
- Microbiologists - 0.2%
- Natural Sciences Managers - 1.1%
- Soil and Plant Scientists - 1.5%
- Zoologists and Wildlife Biologists - 0.2%

UNDEREMPLOYMENT (ESTIMATED):

- Low hours - 0.6%
- Low income - 0.0%
- Mismatch of skills - 6.2%
- Total - 6.4%

(Individuals counted only once when estimating Total Underemployment.)

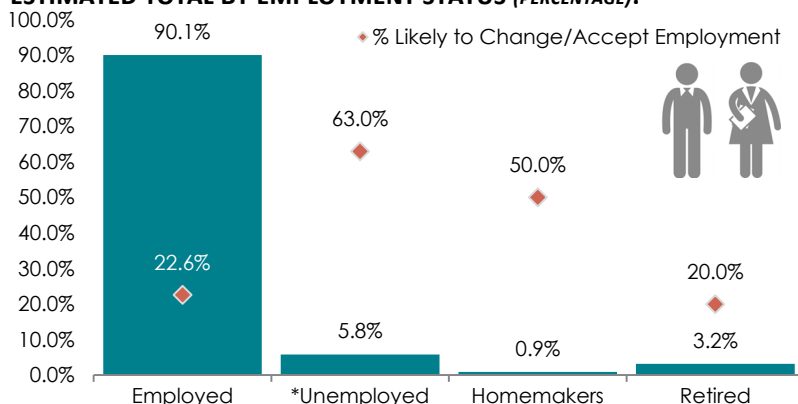
CURRENT BENEFITS:



DESIRED BENEFITS:



ESTIMATED TOTAL BY EMPLOYMENT STATUS (PERCENTAGE):



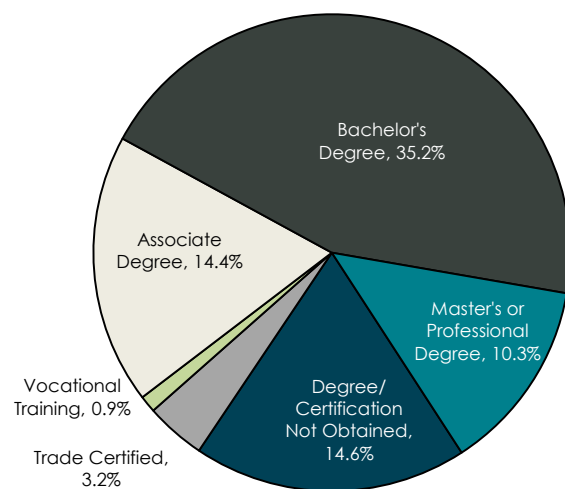
*Employment status is self-identified by the survey respondent. The unemployment percentage does not reflect the unemployment rate published by the U.S. Bureau of Labor Statistics, which applies a stricter definition.

EMPLOYMENT STATS:

- 46.5% paid an annual salary
- 94.4% are/were employed full-time
- 5.6% are/were employed part-time
- 29.9% are/were self-employed
- 16.7% hold two or more jobs
- Currently working an average of 47 hours/week

EDUCATIONAL LEVEL:

(78.6% HAVE AN EDUCATION BEYOND HIGH SCHOOL)



TOP JOB SEARCH RESOURCES:

(For those seeking employment opportunities, by use.)

- Internet - 74.7%
 - www.indeed.com
 - www.linkedin.com
 - [Company/Organization Websites](#)
- Networking through friends, family or acquaintances - 46.8%
- IowaWORKS Centers - 17.4%
- Private Employment Services - 15.2%



LABOR CHARACTERISTICS



BIOTECHNOLOGY

OCCUPATION	OCCUPATIONAL CODE	MEAN WAGE	MEDIAN WAGE	MEAN SALARY	MEDIAN WAGE
Agricultural Inspectors	45-2011	\$27.45	\$25.92	\$57,100.00	\$53,910.00
Agricultural Workers, All Other	45-2099	\$21.59	\$19.23	\$44,900.00	\$39,990.00
Animal Scientists	19-1011	\$52.87	\$46.00	\$109,980.00	\$95,680.00
Architectural and Engineering Managers	11-9041	\$70.01	\$66.29	\$145,620.00	\$137,870.00
Biochemists and Biophysicists	19-1021	\$41.97	\$38.64	\$87,290.00	\$80,370.00
Biological Scientists, All Other	19-1029	\$39.07	\$38.06	\$81,260.00	\$79,170.00
Biological Technicians	19-4021	\$25.71	\$24.66	\$53,490.00	\$51,300.00
Biomedical Engineers	17-2031	\$44.83	\$44.12	\$93,240.00	\$91,760.00
Chemical Engineers	17-2041	\$49.43	\$48.59	\$102,820.00	\$101,080.00
Chemical Equipment Operators and Tenders	51-9011	\$28.22	\$26.46	\$58,690.00	\$55,030.00
Chemical Plant and System Operators	51-8091	\$28.16	\$28.90	\$58,570.00	\$60,100.00
Chemical Technicians	19-4031	\$25.00	\$25.10	\$52,000.00	\$52,200.00
Chemists	19-2031	\$43.76	\$39.34	\$91,020.00	\$81,830.00
Conservation Scientists	19-1031	\$32.49	\$30.77	\$67,570.00	\$64,010.00
Cooling and Freezing Equipment Operators and Tenders	51-9193	\$27.87	\$23.50	\$57,960.00	\$48,880.00
Dietetic Technicians	29-2051	\$16.32	\$16.35	\$33,950.00	\$34,000.00
Dietitians and Nutritionists	29-1031	\$33.29	\$33.12	\$69,240.00	\$68,880.00
Engineering Technicians, Except Drafters, All Other	17-3029	\$32.23	\$30.75	\$67,030.00	\$63,960.00
Engineers, All Other	17-2199	\$47.86	\$48.17	\$99,560.00	\$100,200.00
Environmental Engineering Technicians	17-3025	\$28.66	\$27.31	\$59,600.00	\$56,810.00
Environmental Engineers	17-2081	\$47.90	\$46.14	\$99,620.00	\$95,980.00
Environmental Scientists and Specialists, Including Health	19-2041	\$38.00	\$35.61	\$79,030.00	\$74,060.00
Farmers, Ranchers, and Other Agricultural Managers	11-9013	\$48.82	\$48.25	\$101,540.00	\$100,350.00
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092	\$17.13	\$16.32	\$35,630.00	\$33,950.00
Farmworkers, Farm, Ranch, and Aquacultural Animals	45-2093	\$18.20	\$16.70	\$37,850.00	\$34,740.00
First-Line Supervisors of Farming, Fishing, and Forestry Workers	45-1011	\$33.22	\$28.92	\$69,090.00	\$60,140.00
First-Line Supervisors of Production and Operating Workers	51-1011	\$34.45	\$34.20	\$71,650.00	\$71,140.00
Food Scientists and Technologists	19-1012	\$32.93	\$30.51	\$68,480.00	\$63,450.00
Foresters	19-1032	\$36.18	\$38.75	\$75,260.00	\$80,590.00
Graders and Sorters, Agricultural Products	45-2041	\$20.92	\$19.99	\$43,520.00	\$41,570.00
Hydrologists	19-2043	\$44.13	\$40.81	\$91,800.00	\$84,880.00
Industrial Engineers	17-2112	\$48.24	\$48.06	\$100,340.00	\$99,960.00
Industrial Production Managers	11-3051	\$55.28	\$50.44	\$114,980.00	\$104,920.00
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	\$24.87	\$23.53	\$51,740.00	\$48,940.00
Life, Physical, and Social Science Technicians, All Other	19-4099	\$23.26	\$21.18	\$48,380.00	\$44,040.00
Materials Scientists	19-2032	\$46.04	\$46.15	\$95,770.00	\$95,990.00
Medical Scientists, Except Epidemiologists	19-1042	\$43.73	\$40.87	\$90,960.00	\$85,010.00
Microbiologists	19-1022	\$43.02	\$36.78	\$89,470.00	\$76,490.00
Natural Sciences Managers	11-9121	\$60.82	\$49.46	\$126,500.00	\$102,880.00
Nuclear Medicine Technologists	29-2033	\$42.40	\$40.19	\$88,190.00	\$83,590.00
Petroleum Pump System Operators, Refinery Operators, and Gaugers	51-8093	\$41.38	\$45.08	\$86,070.00	\$93,760.00
Plant and System Operators, All Other	51-8099	\$29.80	\$28.05	\$61,990.00	\$58,340.00
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	51-9012	\$24.99	\$24.16	\$51,980.00	\$50,260.00
Soil and Plant Scientists	19-1013	\$40.26	\$34.83	\$83,730.00	\$72,440.00
Veterinary Technologists and Technicians	29-2056	\$21.60	\$20.09	\$44,930.00	\$41,780.00
Water and Wastewater Treatment Plant and System Operators	51-8031	\$28.16	\$28.56	\$58,580.00	\$59,400.00
Zoologists and Wildlife Biologists	19-1023	\$39.79	\$38.75	\$82,770.00	\$80,590.00

The 2024 Iowa Wage data for the State of Iowa Laborshed area was produced by the Labor Force & Occupational Analysis Bureau to provide communities local information on wages by occupation. Additional occupational wage and employment data for the State of Iowa Laborshed area can be found at workforce.iowa.gov/laborshed/data. For more information regarding the 2024 OEWS estimates visit: bls.gov/oes/2024/may/oes_tec.htm

Balance of data compiled by Iowa Workforce Development using Laborshed data released in 2025.