

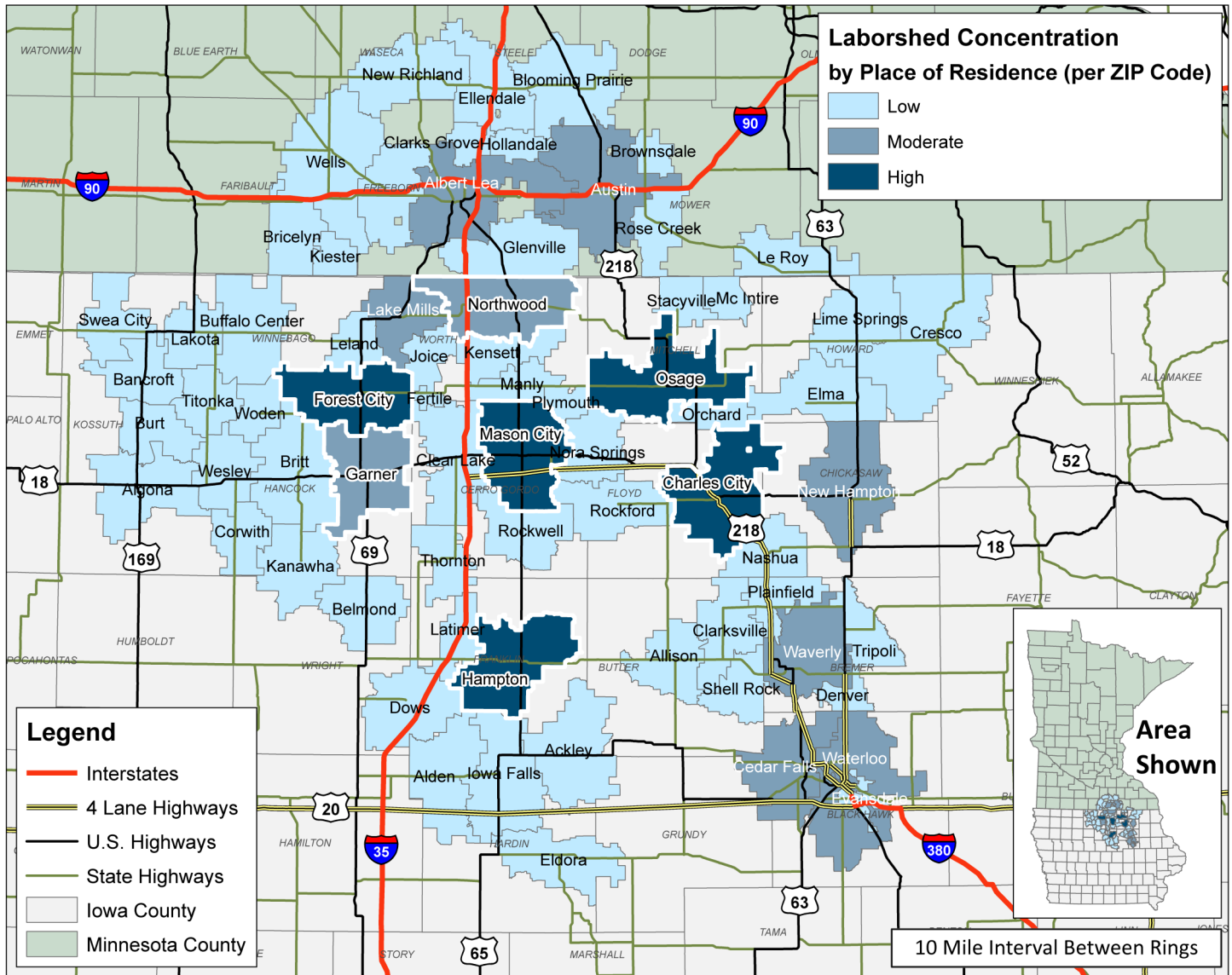
# LABOR CHARACTERISTICS

## BIOTECHNOLOGY



### NORTH CENTRAL IOWA ALLIANCE 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 11 miles one way for work. Those who are likely to change/accept employment are willing to commute an average of 24 miles one way for the right employment opportunity.

FOR MORE INFORMATION REGARDING THE NORTH CENTRAL IOWA ALLIANCE, IA LABORSHED, CONTACT:

# LABOR CHARACTERISTICS

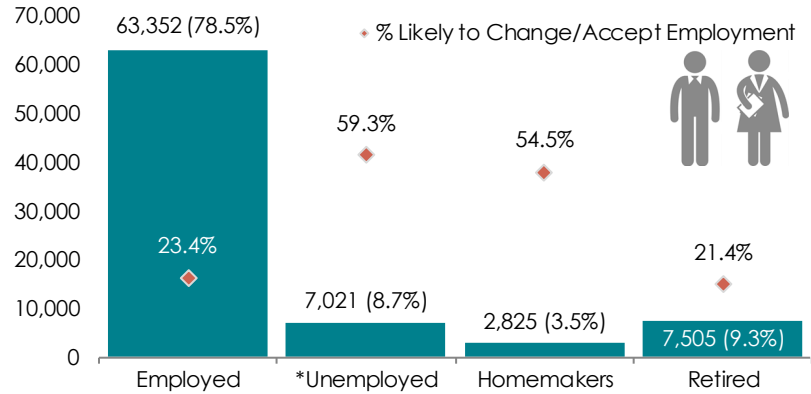


# BIOTECHNOLOGY

## ESTIMATED AVAILABLE LABOR PER OCCUPATIONAL CATEGORY:

- Agricultural & Food Science Technicians - 258
- Agricultural Inspectors - 261
- Agricultural Workers, All Other - 779
- Bakers - 1,557
- Butchers & Meat Cutters - 263
- Chemists - 257
- Computer & Information Systems Managers - 775
- Dietetic Technicians - 1,556
- Dietitians & Nutritionists - 260
- Engineers, All Other - 2,335
- Farmers, Ranchers, & Other Agricultural Managers - 15,570
- Farmworkers & Laborers, Crop, Nursery, & Greenhouse - 1,039
- Food Batchmakers - 264
- Industrial Engineers - 254
- Inspectors, Testers, Sorters, Samplers, & Weighers - 1,816
- Installation, Maintenance, & Repair Workers - 6,747
- Laborers & Freight, Stock, & Material Movers, Hand - 4,152
- Licensed Practical & Licensed Vocational Nurses - 1,038
- Life, Physical, & Social Science Technicians, All Other - 259
- Market Research Analysts & Marketing Specialists - 776
- Medical & Clinical Laboratory Technicians - 1,037
- Medical & Clinical Laboratory Technologists - 777
- Medical Scientists, Except Epidemiologists - 256
- Microbiologists - 255
- Millwrights - 262
- Pharmacy Technicians - 1,297
- Production Workers, All Other - 23,102
- Registered Nurses - 7,785
- Stationary Engineers & Boiler Operators - 265
- Supervisors of Farming, Fishing, & Forestry Workers - 778
- Supervisors of Production & Operating Workers - 3,633
- Water & Wastewater Treatment Plant & System Operators - 1,040

## ESTIMATED TOTAL BY EMPLOYMENT STATUS (PERCENTAGE):



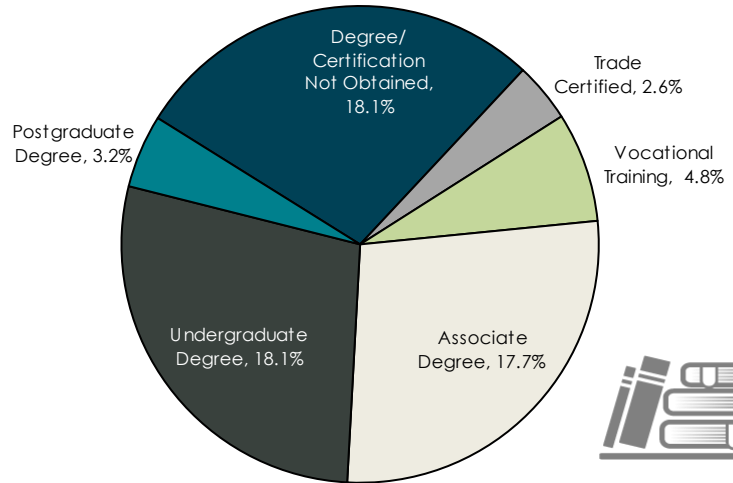
\*Employment status is self-identified by the survey respondent. The unemployment percentage does not reflect the unemployment rate published by the U.S. Bureau of Labor Statistics, which applies a stricter definition.

## EMPLOYMENT STATS:

- 71.1% paid an hourly wage
- 87.4% are/were employed full-time
- 12.6% are/were employed part-time
- 21.2% are/were self-employed
- 20.5% hold two or more jobs
- Currently working an average of 46 hours/week

## EDUCATIONAL LEVEL:

(64.5% HAVE AN EDUCATION BEYOND HIGH SCHOOL)



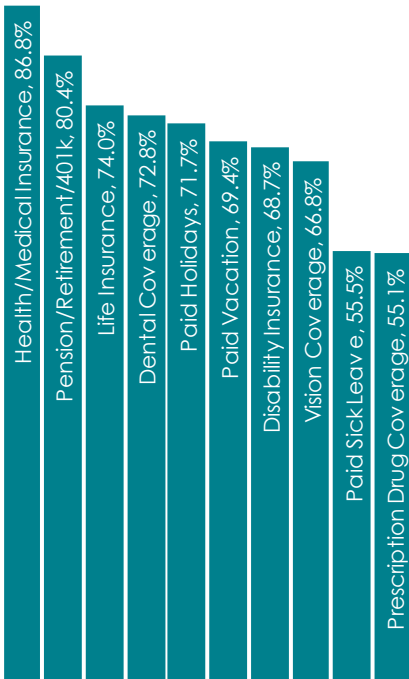
AN ESTIMATED TOTAL OF **80,703** PEOPLE IN THE LABORSHED AREA

## UNDEREMPLOYMENT (ESTIMATED):

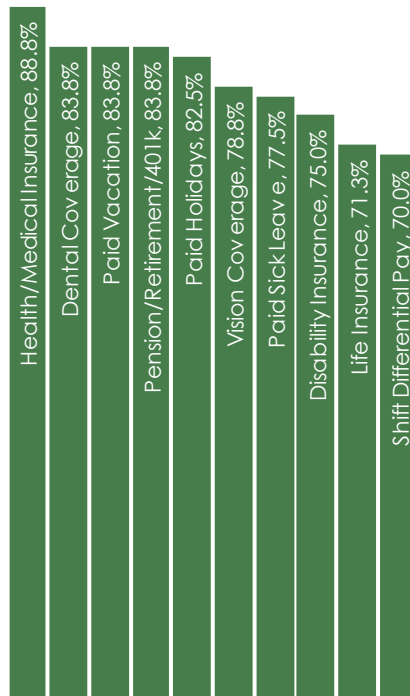
- Low hours - 0.3%
- Mismatch of skills - 3.2%
- Low income - 0.0%
- Total - 3.5%

(Individuals counted only once when estimating Total Underemployment.)

## CURRENT BENEFITS:



## DESIRED BENEFITS:



## TOP JOB SEARCH RESOURCES:

(For those seeking employment opportunities, by use.)

- Internet - 66.7%
  - [www.indeed.com](http://www.indeed.com)
  - [www.iowajobs.org](http://www.iowajobs.org)
  - [www.linkedin.com](http://www.linkedin.com)
- Networking through friends, family or acquaintances - 27.7%
- Newspapers - 26.3%
  - *Globe Gazette* - Mason City
- IowaWORKS Centers - 18.6%



## WORKPLACE FLEXIBILITY:

(by percent of interest)

- Job teams - 73.8%
- Cross-training - 72.8%
- Job sharing - 49.4%
- Varied shifts - 39.2%
- Seasonal work - 51.3%
- Temporary work - 48.8%



# LABOR CHARACTERISTICS



# BIOTECHNOLOGY

OCCUPATION	OCCUPATIONAL CODE	MEAN WAGE	ENTRY WAGE	EXPERIENCED WAGE	MEDIAN WAGE	MEAN ANNUAL SALARY
Computer and Information Systems Managers	11-3021	\$49.25	\$35.54	\$56.11	\$47.82	\$102,442
Agricultural and Food Science Technicians	19-4011	\$20.12	\$12.86	\$23.76	\$15.43	\$41,857
Agricultural Inspectors	45-2011	\$24.89	\$20.20	\$27.23	\$25.28	\$51,765
Architectural and Engineering Managers	11-9041	\$50.12	\$37.11	\$56.62	\$48.50	\$104,243
Bakers	51-3011	\$12.30	\$9.53	\$13.69	\$11.68	\$25,591
Biochemists and Biophysicists	19-1021	\$29.39	\$16.90	\$35.63	\$26.43	\$61,128
Butchers and Meat Cutters	51-3021	\$12.18	\$10.31	\$13.12	\$11.62	\$25,340
Chemical Engineers	17-2041	\$38.73	\$35.53	\$40.33	\$38.08	\$80,558
Chemical Equipment Operators and Tenders	51-9011	\$25.25	\$18.27	\$28.73	\$27.79	\$52,513
Chemical Technicians	19-4031	\$20.59	\$16.05	\$22.86	\$18.92	\$42,824
Chemists	19-2031	\$31.49	\$22.68	\$35.89	\$29.92	\$65,492
Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	13-1041	\$29.80	\$20.88	\$34.27	\$28.50	\$61,993
Conservation Scientists	19-1031	\$24.97	\$16.11	\$29.40	\$23.59	\$51,940
Cooling and Freezing Equipment Operators and Tenders	51-9193	\$17.56	\$12.65	\$20.01	\$15.48	\$36,527
Cutting and Slicing Machine Setters, Operators, and Tenders	51-9032	\$16.83	\$11.79	\$19.35	\$17.52	\$35,008
Dietitians and Nutritionists	29-1031	\$21.00	\$11.63	\$25.68	\$21.34	\$43,674
Engineering Technicians, Except Drafters, All Other	17-3029	\$25.22	\$18.11	\$28.78	\$23.22	\$52,466
Engineers, All Other	17-2199	\$32.34	\$17.67	\$39.67	\$30.22	\$67,269
Environmental Scientists and Specialists, Including Health	19-2041	\$29.09	\$20.92	\$33.17	\$28.58	\$60,504
Farmers, Ranchers, and Other Agricultural Managers	11-9013	\$40.03	\$28.71	\$45.69	\$34.22	\$83,259
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092	\$12.97	\$8.94	\$14.99	\$13.12	\$26,981
First-Line Supervisors of Farming, Fishing, and Forestry Workers	45-1011	\$23.75	\$17.39	\$26.93	\$24.14	\$49,393
First-Line Supervisors of Non-Retail Sales Workers	41-1012	\$30.65	\$20.21	\$35.87	\$28.42	\$63,759
First-Line Supervisors of Production and Operating Workers	51-1011	\$27.56	\$19.29	\$31.69	\$26.60	\$57,316
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51-3091	\$17.76	\$13.44	\$19.92	\$17.36	\$36,940
Food Batchmakers	51-3092	\$14.89	\$11.54	\$16.57	\$14.45	\$30,975
Food Cooking Machine Operators and Tenders	51-3093	\$22.95	\$15.37	\$26.74	\$25.43	\$47,738
Graders and Sorters, Agricultural Products	45-2041	\$15.44	\$13.71	\$16.30	\$15.42	\$32,107
Health Technologists and Technicians, All Other	29-2099	\$19.22	\$13.69	\$21.99	\$18.83	\$39,988
Healthcare Support Workers, All Other	31-9099	\$16.75	\$13.25	\$18.50	\$16.56	\$34,838
Industrial Engineers	17-2112	\$37.43	\$27.15	\$42.56	\$35.47	\$77,847
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	\$18.32	\$13.22	\$20.88	\$17.23	\$38,112
Installation, Maintenance, and Repair Workers, All Other	49-9099	\$20.72	\$14.78	\$23.69	\$21.37	\$43,104
Internists, General	29-1063	\$98.18	\$34.06	\$130.24	\$99.24	\$204,214
Laborers and Freight, Stock, and Material Movers, Hand	53-7062	\$15.96	\$11.38	\$18.25	\$15.88	\$33,198
Licensed Practical and Licensed Vocational Nurses	29-2061	\$19.38	\$16.78	\$20.67	\$19.25	\$40,302
Life, Physical, and Social Science Technicians, All Other	19-4099	\$22.52	\$17.08	\$25.24	\$22.03	\$46,845
Maintenance and Repair Workers, General	49-9071	\$18.91	\$13.29	\$21.72	\$18.45	\$39,331
Market Research Analysts and Marketing Specialists	13-1161	\$24.67	\$15.14	\$29.43	\$20.98	\$51,308
Materials Engineers	17-2131	\$31.45	\$23.32	\$35.52	\$28.91	\$65,413
Meat, Poultry, and Fish Cutters and Trimmers	51-3022	\$15.45	\$13.49	\$16.43	\$15.58	\$32,143
Natural Sciences Managers	11-9121	\$52.82	\$28.14	\$65.16	\$54.79	\$109,865
Nuclear Medicine Technologists	29-2033	\$36.08	\$30.85	\$38.70	\$35.09	\$75,054
Paralegals and Legal Assistants	23-2011	\$18.45	\$11.72	\$21.82	\$17.80	\$38,386
Pharmacy Technicians	29-2052	\$14.93	\$11.96	\$16.42	\$14.60	\$31,064
Physicians and Surgeons, All Other	29-1069	\$111.95	\$60.61	\$137.61	N.A.	\$232,848
Plant and System Operators, All Other	51-8099	\$28.46	\$21.35	\$32.01	\$29.26	\$59,192
Production Workers, All Other	51-9199	\$13.30	\$9.24	\$15.33	\$13.41	\$27,661
Registered Nurses	29-1141	\$26.81	\$20.73	\$29.85	\$26.61	\$55,766
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	51-9012	\$15.76	\$10.86	\$18.20	\$15.95	\$32,771
Slaughterers and Meat Packers	51-3023	\$14.98	\$12.44	\$16.25	\$15.33	\$31,161
Soil and Plant Scientists	19-1013	\$32.49	\$20.79	\$38.33	\$28.80	\$67,572
Stationary Engineers and Boiler Operators	51-8021	\$25.82	\$19.97	\$28.74	\$26.65	\$53,704
Veterinary Technologists and Technicians	29-2056	\$14.30	\$11.50	\$15.70	\$14.02	\$29,742
Water and Wastewater Treatment Plant and System Operators	51-8031	\$20.01	\$12.64	\$23.69	\$20.24	\$41,615
Zoologists and Wildlife Biologists	19-1023	\$27.08	\$20.65	\$30.30	\$26.09	\$56,331

The 2018 Iowa Wage data for the North Central Iowa Alliance Laborshed area was produced by the Labor Force & Occupational Analysis Bureau to provide communities local information on wages by occupation. The source of the wage and employment data is based on the May 2017 OES estimates. Additional occupational wage and employment data can be found at [www.iowalmi.gov/laborshed](http://www.iowalmi.gov/laborshed).