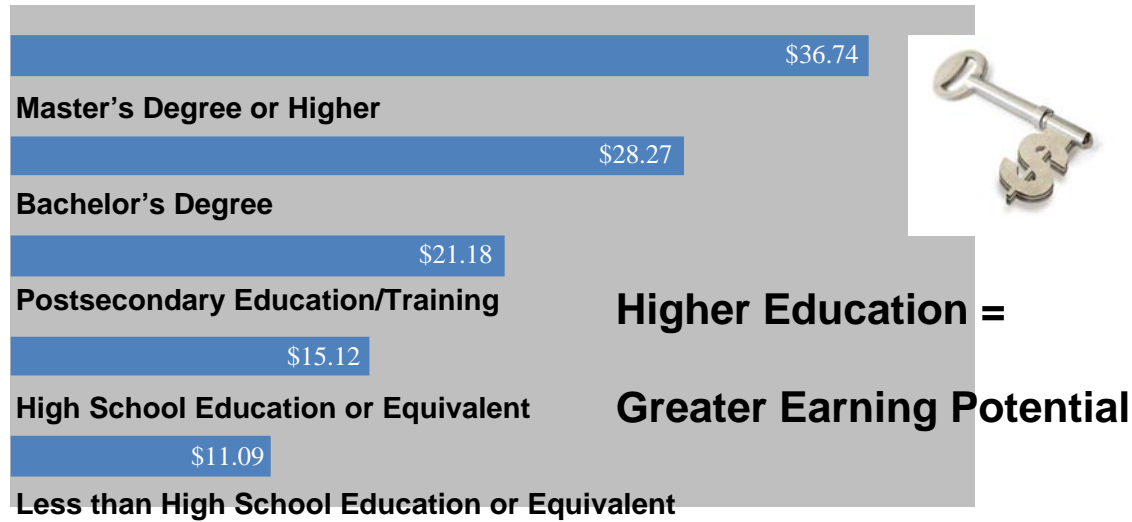


Iowa's 2009 Mean Hourly Wages by Education Levels



Methodology/Selection Criteria:

Occupations were selected based on their education level requirement and their faster-than-state average annual growth rate from Iowa's 2006-2016 occupational projections.

***Mean Wage**, also known as the average wage, is computed by dividing the estimated total wage for a reported occupation by its weighted employment. Wages for Legislators based on 6-months service and Teachers and Coaches/Scouts based on 12-months service respectively; wages for Farmers based on Farm Supervisors/Managers wages; wages for Biological Technicians, Mold/Core/Cast Machine Setters, and Chemical Equipment Operators based on 2007 OES data; and Teachers (All Other), Gaming Supervisors, Interpreters/Translators, Musicians/Singers, Gaming Surveillance Officers, Metal and Plastic Workers (All Other), Textile/Apparel/Furnishings Workers, Railroad Brake/Signal/Switch Operators, and Gaming Change Persons based on 2008 OES data.

****Top Skills** refers to those skills identified through employer sampling by the U.S. Department of Labor's Occupational Information Network (O*NET) as being the top five (or more if tied) most important for a particular occupation. These include: Basic Skills: B1 = Active Learning; B2 = Active Listening; B3 = Critical Thinking; B4 = Learning Strategies; B5 = Mathematics; B6 = Monitoring; B7 = Reading Comprehension; B8 = Science; B9 = Speaking; B10 = Writing; Complex Problem Solving Skills: C1 = Complex Problem Solving; Resource Management Skills: R1 = Management of Financial Resources; R2 = Management of Material Resources; R3 = Management of Personnel Resources; R4 = Time Management; Social Skills: SO1 = Coordination; SO2 = Instructing; SO3 = Negotiation; SO4 = Persuasion; SO5 = Service Orientation; SO6 = Social Perceptiveness; Systems Skills: SY1 = Judgment and Decision Making; SY2 = Systems Analysis; SY3 = Systems Evaluation; Technical Skills: T1 = Equipment Maintenance; T2 = Equipment Selection; T3 = Installation; T4 = Operation and Control; T5 = Operation Monitoring; T6 = Operations Analysis; T7 = Programming; T8 = Quality Control Analysis; T9 = Repairing; T10 = Technology Design; T11 = Troubleshooting.

Sources:

Education/Training Level: Modified model from the Bureau of Labor Statistics, U.S. Department of Labor.

Employment and Wages: 2006-2016 Occupational Projections and the 2009 Iowa Wage Survey. The Iowa Wage Survey is the May 2008 Occupational Employment Statistics (OES) Wage Survey with wage estimates updated to the second quarter of 2009 using the Employment Cost Index., Labor Market and Workforce Information Division, Iowa Workforce Development.

Skills: Occupational Information Network (O*NET), U.S. Department of Labor.

This publication was produced by the Labor Market and Workforce Information Division of Iowa Workforce Development. Inquiries may be directed to Brent Paulson at 515.281.3439. Visit <http://iwin.iowaworkforce.org/> to obtain the latest workforce data and trends including this document under the **Publications** tab.

2006-2016 IOWA'S CAREER & EDUCATION OUTLOOK



HIGH DEMAND OCCUPATIONS by EDUCATION LEVEL

November 2009

IOWA
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2006-2016 Iowa's FASTEST GROWING Jobs By EDUCATION LEVEL

Master's Degree or Higher

Occupational Title	2006 Estimated Employment	2016 Projected Employment	Annual Growth Rate (%)	2009 Mean Hourly Wage*	2009 Mean Annual Salary	Top Skills**
Marriage and Family Therapists	345	470	3.6	\$17.92	\$37,277	B2, SO6, B9, B3, SO3
Mental Health and Substance Abuse Social Workers	1,635	2,115	3.0	19.30	40,146	B2, SO6, B3, B9, B7, B10
Mental Health Counselors	700	900	2.8	16.40	34,102	B2, SO6, B3, SO5, B1
Instructional Coordinators	1,330	1,665	2.5	28.43	59,157	B7, B2, B3, B4, SO2
Physical Therapists	1,705	2,120	2.4	33.51	69,704	B2, SO2, R4, B9, B3
Pharmacists	2,605	3,220	2.4	44.81	93,197	B2, B9, B7, B5, B8
Rehabilitation Counselors	2,480	3,065	2.4	14.60	30,365	SO6, R4, B7, B9, SO1, SO5
Art, Drama, and Music Teachers, Postsecondary	880	1,085	2.3	29.97	62,332	SO2, B9, B2, B3, B7
Occupational Therapists	920	1,130	2.3	29.75	61,883	B2, B7, SO5, B10, SO2, B9
Physician Assistants	570	700	2.3	38.37	79,802	B2, B1, B9, B7, B3
Education Teachers, Postsecondary	755	925	2.3	33.10	68,857	SO2, B7, B4, B3, B2, B10
English Language and Literature Teachers, Postsecondary	760	920	2.2	31.46	65,436	SO2, B7, B10, B3, B2, B9
Nursing Instructors and Teachers, Postsecondary	675	820	2.1	26.89	55,941	SO2, B7, B9, B2, B3, B10
Biological Science Teachers, Postsecondary	700	850	2.1	37.57	78,137	B8, SO2, B7, B9, B3
Postsecondary Teachers, All Other	3,785	4,590	2.1	22.97	47,773	
Business Teachers, Postsecondary	980	1,185	2.1	36.72	76,381	SO2, B7, B9, B3, B1, B2, B4, B10
Computer Science Teachers, Postsecondary	510	610	2.1	32.86	68,356	SO2, B3, B9, B4, B7
Mathematical Science Teachers, Postsecondary	560	675	2.1	36.84	76,626	B5, SO2, B9, B3, B7
Lawyers	4,240	4,780	1.3	45.65	94,953	B7, SY1, B10, B3, B2

Bachelor's Degree

Computer Software Engineers, Applications	3,430	4,900	4.3	\$35.84	\$74,544	T7, B3, C1, B1, T11
Network Systems and Data Communications Analysts	2,790	3,970	4.2	31.53	65,589	T2, T11, C1, B2, B1
Veterinarians	1,370	1,795	3.1	33.47	69,622	B2, B7, B3, C1, B9
Personal Financial Advisors	1,280	1,675	3.0	32.80	68,214	B2, R4, B7, B3, B9
Computer Systems Analysts	4,690	6,065	2.9	34.16	71,062	B1, B7, C1, B3, B2
Industrial Engineers	2,250	2,890	2.8	31.69	65,926	B3, B2, R4, B7, C1
Substance Abuse and Behavioral Disorder Counselors	1,365	1,750	2.8	18.01	37,471	B2, SO6, SO5, B9, R4
Community and Social Service Specialists, All Other	2,845	3,645	2.8	14.37	29,885	
Database Administrators	665	840	2.7	31.67	65,885	B1, T11, B3, SO1, B2
Logisticians	485	610	2.6	29.62	61,606	SO1, B2, B3, B7, B10
Surveyors	525	660	2.6	23.12	48,079	B5, B2, B3, B10, SO1, B7
Computer Software Engineers, Systems Software	2,830	3,540	2.5	37.08	77,137	C1, T10, T11, B3, B1
Social Workers, All Other	795	990	2.5	20.15	41,912	
Financial Analysts	1,985	2,465	2.4	29.76	61,900	B7, R4, B2, SY1, C1, B5
Network and Computer Systems Administrators	2,745	3,395	2.4	29.79	61,975	B7, T11, B2, B1, C1, B3
Business Operations Specialists, All Other	12,860	15,870	2.3	24.99	51,983	
Actuaries	515	635	2.3	44.47	92,513	B5, B1, C1, B3, B2
Insurance Sales Agents	5,690	6,980	2.3	25.28	52,596	B2, B9, R4, B7, SO4
Medical and Public Health Social Workers	1,530	1,870	2.3	19.85	41,289	B2, B10, B7, SO6, B9
Cost Estimators	2,110	2,585	2.3	25.14	52,276	B2, B7, B5, R4, B10
Compensation, Benefits, and Job Analysis Specialists	1,470	1,795	2.2	21.58	44,899	B7, B2, B3, B10, SY1
Social and Community Service Managers	2,540	3,065	2.1	24.26	50,455	B2, B9, SO6, SO2, R4
Training and Development Specialists	2,510	3,020	2.0	22.18	46,134	B2, B9, R4, B7, B10

Postsecondary Education/Training

Gaming Supervisors	615	845	3.7	\$21.69	N.A.	B5, SO2, B2, SO5, B6, B9
Veterinary Technologists and Technicians	470	625	3.4	14.17	29,476	B2, B7, B9, B3, B1, B5
Physical Therapist Assistants	765	1,000	3.1	17.13	35,639	B2, B7, R4, SO2, B10
Gaming Dealers	1,400	1,800	2.9	11.53	23,988	B5, B9, B2, SO5, SO6
Sales Representatives, Services, All Other	5,050	6,385	2.6	24.87	51,721	
Dental Hygienists	1,950	2,460	2.6	30.65	63,762	B2, B9, B1, B7, R4
Dental Assistants	2,575	3,245	2.6	15.85	32,982	B2, B7, B9, SO1, SO6
Registered Nurses	31,805	39,035	2.3	24.88	51,765	B2, B7, B3, SO2, B9
Surgical Technologists	640	785	2.3	17.30	35,970	B2, B1, B3, T2, SO1
Paralegals and Legal Assistants	1,460	1,790	2.3	20.97	43,607	B7, R4, B2, B10, B9
Millwrights	635	770	2.1	20.30	42,216	T2, T9, T3, T11, B5
Respiratory Therapists	880	1,065	2.1	22.02	45,802	B2, SO2, B7, B3, B6
Medical Equipment Repairers	550	670	2.1	22.86	47,542	T1, T9, T11, B7, B3
Claims Adjusters, Examiners, and Investigators	3,680	4,445	2.1	25.53	53,096	B7, SY1, B2, R4, B10
Interpreters and Translators	560	680	2.1	15.57	N.A.	B2, B9, B7, SO6, SO1
Cabinetmakers and Bench Carpenters	3,470	4,180	2.0	12.81	26,646	B2, SO2, B5, B7, T2, B9
Preschool Teachers, Except Special Education	4,020	4,835	2.0	11.88	24,708	B2, SO2, B9, B7, B4
Industrial Engineering Technicians	600	720	2.0	22.95	47,752	B2, C1, B3, SY1, SO1
Fitness Trainers and Aerobics Instructors	2,535	3,030	2.0	11.95	24,846	SO2, B9, SO1, B6, B4
Computer Specialists, All Other	1,875	2,215	1.8	27.72	57,656	
Automotive Service Technicians and Mechanics	8,965	10,475	1.7	16.86	35,067	T11, T9, T2, B1, B7
Interior Designers	535	625	1.7	19.04	39,615	B2, B7, R1, B9, SO4, B10

High School Education or Equivalent

Occupational Title	2006 Estimated Employment	2016 Projected Employment	Annual Growth Rate (%)	2009 Mean Hourly Wage*	2009 Mean Annual Salary	Top Skills**
Gaming Surveillance Officers and Gaming Investigators	265	440	6.4	\$13.32	N.A.	B2, B3, B10, SO2, B7
Pharmacy Technicians	3,195	4,325	3.5	13.13	27,322	B2, B9, B1, SO5, SO2
Medical Assistants	2,700	3,590	3.3	13.93	28,975	B2, SO6, B9, SO2, B7
Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,460	1,930	3.2	12.51	26,024	T1, T11, T2, SO2, T4
Gaming Cage Workers	320	420	3.1	10.87	22,619	B5, B2, B9, B7, SO5
Customer Service Representatives	24,015	30,875	2.9	13.95	29,009	B2, B7, B6, B9, R4
Entertainment Attendants and Related Workers, All Other	845	1,050	2.4	11.63	24,192	
Pest Control Workers	470	575	2.2	16.27	33,840	B9, B2, R4, B1, B7
Advertising Sales Agents	2,105	2,565	2.2	19.12	39,768	B2, R4, B9, B5, SO3
Social and Human Service Assistants	4,905	5,890	2.0	13.59	28,272	B2, B9, B10, B7, SO6
Roofers	1,510	1,800	1.9	15.69	32,638	T3, SO1, B9, SO2, B2
Demonstrators and Product Promoters	970	1,150	1.9	10.53	21,903	B7, B2, SO6, B9, SO4, SO5
Merchandise Displayers and Window Trimmers	1,135	1,335	1.8	11.60	24,116	R4, B2, B9, SO1, SO6
Truck Drivers, Heavy and Tractor-Trailer	42,670	50,060	1.7	17.87	37,193	T1, B2, R4, SO1, SY1, B7
Correctional Officers and Jailers	3,485	4,095	1.7	19.63	40,841	B2, SO6, B9, B6, B10
Tour Guides and Escorts	520	605	1.6	11.06	23,007	B9, B2, B7, B1, SO6
Cement Masons and Concrete Finishers	4,135	4,790	1.6	15.67	32,597	SO1, B5, B2, B3, B1
Residential Advisors	420	490	1.5	12.39	25,766	B2, SO6, R4, B6, B3, B9
Painters, Transportation Equipment	615	710	1.5	16.36	34,029	R4, T1, B6, T2, B3
Bus Drivers, Transit and Intercity	2,020	2,325	1.5	13.09	27,208	B2, T5, SO6, T1, T4, B7
Sales and Related Workers, All Other	1,835	2,105	1.4	19.67	40,927	
Medical Secretaries	3,385	3,870	1.4	14.08	29,296	B2, B7, B9, SO1, B1
Travel Agents	820	935	1.4	13.56	28,218	B2, SO5, B7, B9, SO6, R4
Police, Fire, and Ambulance Dispatchers	760	865	1.4	16.89	35,122	B2, B9, B3, B7, SY1
Bookkeeping, Accounting, and Auditing Clerks	25,250	28,695	1.4	14.61	30,391	B5, B7, R4, B2, B3
Woodworkers, All Other	525	595	1.3	10.88	22,638	
Slaughterers and Meat Packers	10,365	11,720	1.3	12.20	25,371	SO2, B6, T8, T1, SO1
Brokerage Clerks	460	520	1.3	16.57	34,467	B2, B9, SO5, B7, R4

Less than High School Education or Equivalent

Home Health Aides	9,965	14,265	4.3	\$10.98	\$22,823	B2, B7, B10, SO1, SO5
Personal and Home Care Aides	5,760	7,855	3.6	10.20	21,208	B2, SO6, SO1, SO5, B6, R4
Bill and Account Collectors	4,005	5,115	2.8	14.37	29,879	B2, B9, B7, R4, B5
Tire Repairers and Changers	1,080	1,350	2.5	12.15	25,266	B2, T3, B7, T9, T11
Service Station Attendants	890	1,110	2.5	9.93	20,661	B2, B9, SO5, B3, B5
Counter and Rental Clerks	4,590	5,595	2.2	10.54	21,922	B2, B7, B9, B5, SO5
Amusement and Recreation Attendants	3,120	3,800	2.2	9.02	18,775	B2, B9, SO1, B7, B10
Security Guards	6,540	7,930	2.1	12.71	26,441	B2, B7, SO6, B9, B6
Hotel, Motel, and Resort Desk Clerks	3,070	3,705	2.1	9.04	18,810	B2, B9, SO5, SO6, B3
Child Care Workers	16,560	19,870	2.0	9.12	18,959	B2, B4, SO6, SO2, B9
Combined Food Preparation and Serving Workers, Including Fast Food	30,740	36,650	1.9	8.50	17,692	B2, B9, SO2, B5, SO5, SO6
Tellers	8,620	10,275	1.9	11.65	24,227	B5, B2, SO5, SO6, B7
Ushers, Lobby Attendants, and Ticket Takers	1,050	1,245	1.9	8.53	17,743	B2, B9, SO6, SO5, SO1
Physical Therapist Aides	760	900	1.8	12.13	25,235	SO5, B2, B6, R4, SO6
Landscaping and Groundskeeping Workers	10,615	12,560	1.8	11.61	24,151	T1, B2, B9, B7, T2
Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters	505	595	1.8	14.77	30,720	B2, B5, T2, T3, SO1
Cleaners of Vehicles and Equipment	3,965	4,660	1.7	10.80	22,460	T1, B2, R4, SO1, SO2
Maids and Housekeeping Cleaners	12,830	15,050	1.7	9.58	19,930	B7, R4, B9, B2, SO2
Food Preparation Workers	9,250	10,765	1.6	9.31	19,368	B2, B7, SO2, B9, B4
Receptionists and Information Clerks	11,190	12,990	1.6	11.67	24,288	B2, B9, B7, B10, SO5
Motor Vehicle Operators, All Other	870	1,010	1.6	13.15	27,341	
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	26,790	30,950	1.6	11.13	23,150	B7, B2, B9, SO1, T2
Nonfarm Animal Caretakers	1,450	1,675	1.6	10.28	21,392	B2, R4, B9, SO6, SO1
Dining Room and Cafeteria Attendants and Bartender Helpers	3,275	3,780	1.5	8.58	17,835	B9, B2, B4, SO6, SO5
Retail Salespersons	48,810	56,110	1.5	11.68	24,299	B2, B5, B9, SO6, B3
Taxi Drivers and Chauffeurs	2,565	2,940	1.5	10.19	21,179	R4, T1, SO6, B5, B2
Office Clerks, General	32,915	37,725	1.5	13.17	27,401	B2, B7, B9, B10, SO6
Food Servers, Nonrestaurant	2,355	2,695	1.4	9.61	19,971	B2, SO5, B9, R4, SO2
Protective Service Workers, All Other	425	485	1.4	13.27	27,606	
Helpers—Installation, Maintenance, and Repair Workers	775	880	1.4	12.57	26,137	T1, B2, T9, T3, T11