

Wisconsin's Thirty Fastest Growing Occupations, 2003-2005<sup>(1)</sup>

| SOC Code | Occupation Title  | Estimated Employment <sup>(2)</sup> |        |        |                | Typical Education and Training Path <sup>(3)</sup> | Estimated Average Annual Salary <sup>(4)</sup> |
|----------|---|-------------------------------------|--------|--------|----------------|--|--|
|          |   | 2003                                | 2005   | Change | Percent Change |  |  |
| 15-1081  | Network Systems and Data Communications Analysts            | 3,060                               | 3,330  | 270    | 8.82%          | Bachelor's degree                                  | \$55,620                                       |
| 31-9092  | Medical Assistants  | 6,260                               | 6,800  | 540    | 8.63%          | Moderate-term on-the-job training                  | \$25,550                                       |
| 13-2052  | Personal Financial Advisors                                 | 2,210                               | 2,390  | 180    | 8.14%          | Bachelor's degree                                  | \$70,050                                       |
| 29-2071  | Medical Records and Health Information Technicians          | 3,990                               | 4,300  | 310    | 7.77%          | Associate degree                                   | \$25,580                                       |
| 29-1071  | Physician Assistants  | 1,160                               | 1,250  | 90     | 7.76%          | Bachelor's degree                                  | \$65,910                                       |
| 15-1032  | Computer Software Engineers, Systems Software               | 2,150                               | 2,310  | 160    | 7.44%          | Bachelor's degree                                  | \$65,950                                       |
| 31-1011  | Home Health Aides   | 12,190                              | 13,080 | 890    | 7.30%          | Short-term on-the-job training                     | \$20,380                                       |
| 47-4041  | Hazardous Materials Removal Workers                         | 850                                 | 910    | 60     | 7.06%          | Moderate-term on-the-job training                  | \$43,530                                       |
| 39-9021  | Personal and Home Care Aides                                | 18,500                              | 19,800 | 1,300  | 7.03%          | Short-term on-the-job training                     | \$18,840                                       |
| 15-1031  | Computer Software Engineers, Applications                   | 4,860                               | 5,200  | 340    | 7.00%          | Bachelor's degree                                  | \$65,240                                       |
| 29-2054  | Respiratory Therapy Technicians                             | 720                                 | 770    | 50     | 6.94%          | Postsecondary vocational training                  | \$36,610                                       |
| 21-1093  | Social and Human Service Assistants                         | 8,090                               | 8,650  | 560    | 6.92%          | Moderate-term on-the-job training                  | \$25,750                                       |
| 29-1126  | Respiratory Therapists                                      | 1,430                               | 1,520  | 90     | 6.29%          | Associate degree                                   | \$41,540                                       |
| 29-2021  | Dental Hygienists   | 3,670                               | 3,900  | 230    | 6.27%          | Associate degree                                   | \$51,200                                       |
| 49-9021  | Heating/Air Conditioning/Refrigeration Mechanics/Installers | 4,080                               | 4,330  | 250    | 6.13%          | Long-term on-the-job training                      | \$38,300                                       |
| 31-9091  | Dental Assistants   | 5,740                               | 6,090  | 350    | 6.10%          | Moderate-term on-the-job training                  | \$25,490                                       |
| 15-1061  | Database Administrators                                     | 1,660                               | 1,760  | 100    | 6.02%          | Bachelor's degree                                  | \$54,730                                       |
| 31-2021  | Physical Therapist Assistants                               | 1,330                               | 1,410  | 80     | 6.02%          | Associate degree                                   | \$33,980                                       |
| 31-2022  | Physical Therapist Aides                                    | 840                                 | 890    | 50     | 5.95%          | Short-term on-the-job training                     | \$22,470                                       |
| 43-9031  | Desktop Publishers  | 1,040                               | 1,100  | 60     | 5.77%          | Postsecondary vocational training                  | \$31,810                                       |
| 51-3023  | Slaughterers and Meat Packers                               | 6,650                               | 7,030  | 380    | 5.71%          | Moderate-term on-the-job training                  | \$21,270                                       |
| 25-1124  | Foreign Language and Literature Teachers, Postsecondary     | 530                                 | 560    | 30     | 5.66%          | Doctoral degree                                    | \$46,020                                       |
| 15-1051  | Computer Systems Analysts                                   | 12,930                              | 13,650 | 720    | 5.57%          | Bachelor's degree                                  | \$68,780                                       |
| 15-1099  | Computer Specialists, All Other                             | 3,070                               | 3,240  | 170    | 5.54%          | Associate degree                                   |  |
| 11-3021  | Computer and Information Systems Managers                   | 4,490                               | 4,730  | 240    | 5.35%          | Work experience plus degree                        | \$85,590                                       |
| 51-3022  | Meat/Poultry/Fish Cutters/Trimmers                          | 1,360                               | 1,430  | 70     | 5.15%          | Short-term on-the-job training                     | \$22,670                                       |
| 29-2055  | Surgical Technologists                                      | 1,750                               | 1,840  | 90     | 5.14%          | Postsecondary vocational training                  | \$35,470                                       |
| 15-1071  | Network/Computer Systems Admin                              | 4,740                               | 4,980  | 240    | 5.06%          | Bachelor's degree                                  | \$53,670                                       |
| 39-9041  | Residential Advisors  | 790                                 | 830    | 40     | 5.06%          | Moderate-term on-the-job training                  | \$21,890                                       |
| 11-2022  | Sales Mgrs  | 5,170                               | 5,430  | 260    | 5.03%          | Work experience plus degree                        | \$84,940                                       |

Footnotes:

- (1) Only industries with employment of 500 or more are included in the rankings.
- (2) **Employment** includes self-employed and unpaid family workers. Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding.
- (3) **Typical Education and Training Path** gives a general indication of the education or training typically needed in the occupation. There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.
  - Short-Term On-the-Job Training:** These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.
  - Moderate-Term On-the-Job Training:** Training for these occupations usually occurs at the workplace and lasts from one to twelve months.
  - Long-Term On-the-Job Training:** These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.
  - Postsecondary Vocational Training:** These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.
  - Associate Degree:** This degree requires two years of full-time academic work beyond high school.
  - Bachelor's Degree:** This degree requires four or five years of full-time academic work at a college or university.
  - Doctoral Degree:** This degree usually requires at least three years of full-time study beyond a bachelor's degree.
  - Work Experience Plus Degree:** These occupations require a bachelor's or higher degree, in addition to work experience in a related non-managerial position.
- (4) **Average Annual Salary:** An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.

Information is derived using the 2003 OES/Wage Survey, 2003 QCEW and 2003 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy during 2004 and 2005. It is important to note that unanticipated events may affect the accuracy of these projections.

**Source:** Office of Economic Advisors, Wisconsin Department of Workforce Development

July 2004

**Contact:** *Emily Camfield, Economist*

*(608) 267-9607*

*emily.camfield@dwd.state.wi.us*

## Wisconsin's Thirty Fastest Growing Occupations, 2002-2012 <sup>(1)</sup>

| SOC Code | Occupational Title  | 2002 Estimated Employment <sup>(2)</sup> | 2012 Projected Employment <sup>(2)</sup> | 2002-2012 Employment Change | 2002-2012 Percentage Change | Typical Education and Training Path <sup>(3)</sup> | Average Annual Salary \$ <sup>(4)</sup> |
|----------|---|--|--|-----------------------------|-----------------------------|--|---|
| 31-9092  | Medical Assistants  | 6,110                                    | 9,660                                    | 3,550                       | 58.1%                       | Moderate-term on-the-job training                  | 25,550                                  |
| 15-1081  | Network Systems and Data Communications Analysts            | 3,070                                    | 4,800                                    | 1,730                       | 56.4%                       | Bachelor's degree                                  | 55,620                                  |
| 29-2071  | Medical Records and Health Information Technicians          | 3,900                                    | 6,020                                    | 2,120                       | 54.4%                       | Associate degree                                   | 25,580                                  |
| 29-1071  | Physician Assistants  | 1,130                                    | 1,720                                    | 590                         | 52.2%                       | Bachelor's degree                                  | 65,910                                  |
| 15-1032  | Computer Software Engineers, Systems Software               | 2,160                                    | 3,270                                    | 1,110                       | 51.4%                       | Bachelor's degree                                  | 65,950                                  |
| 31-1011  | Home Health Aides   | 11,800                                   | 17,750                                   | 5,950                       | 50.4%                       | Short-term on-the-job training                     | 20,380                                  |
| 31-2022  | Physical Therapist Aides                                    | 820                                      | 1,200                                    | 380                         | 46.3%                       | Short-term on-the-job training                     | 22,470                                  |
| 21-1093  | Social and Human Service Assistants                         | 7,810                                    | 11,410                                   | 3,600                       | 46.1%                       | Moderate-term on-the-job training                  | 25,750                                  |
| 39-9021  | Personal and Home Care Aides                                | 17,630                                   | 25,620                                   | 7,990                       | 45.3%                       | Short-term on-the-job training                     | 18,840                                  |
| 29-2054  | Respiratory Therapy Technicians                             | 700                                      | 1,010                                    | 310                         | 44.3%                       | Postsecondary vocational training                  | 36,610                                  |
| 29-1126  | Respiratory Therapists                                      | 1,400                                    | 2,010                                    | 610                         | 43.6%                       | Associate degree                                   | 41,540                                  |
| 15-1031  | Computer Software Engineers, Applications                   | 4,860                                    | 6,950                                    | 2,090                       | 43.0%                       | Bachelor's degree                                  | 65,240                                  |
| 31-2021  | Physical Therapist Assistants                               | 1,310                                    | 1,870                                    | 560                         | 42.7%                       | Associate degree                                   | 33,980                                  |
| 29-2021  | Dental Hygienists   | 3,650                                    | 5,200                                    | 1,550                       | 42.5%                       | Associate degree                                   | 51,200                                  |
| 31-9091  | Dental Assistants   | 5,700                                    | 8,120                                    | 2,420                       | 42.5%                       | Moderate-term on-the-job training                  | 25,490                                  |
| 29-2056  | Veterinary Technologists and Technicians                    | 1,290                                    | 1,830                                    | 540                         | 41.9%                       | Associate degree                                   | 24,380                                  |
| 29-1124  | Radiation Therapists  | 440                                      | 620                                      | 180                         | 40.9%                       | Associate degree                                   | 50,320                                  |
| 47-4041  | Hazardous Materials Removal Workers                         | 880                                      | 1,240                                    | 360                         | 40.9%                       | Moderate-term on-the-job training                  | 43,530                                  |
| 29-2031  | Cardiovascular Technologists and Technicians                | 620                                      | 870                                      | 250                         | 40.3%                       | Associate degree                                   | 36,270                                  |
| 13-2052  | Personal Financial Advisors                                 | 2,250                                    | 3,140                                    | 890                         | 39.6%                       | Bachelor's degree                                  | 70,050                                  |
| 15-1051  | Computer Systems Analysts                                   | 12,910                                   | 17,880                                   | 4,970                       | 38.5%                       | Bachelor's degree                                  | 68,780                                  |
| 31-2011  | Occupational Therapist Assistants                           | 610                                      | 840                                      | 230                         | 37.7%                       | Associate degree                                   | 33,750                                  |
| 49-9021  | Heating/Air Conditioning/Refrigeration Mechanics/Installers | 4,110                                    | 5,630                                    | 1,520                       | 37.0%                       | Long-term on-the-job training                      | 38,300                                  |
| 17-2081  | Environmental Engineers                                     | 1,040                                    | 1,420                                    | 380                         | 36.5%                       | Bachelor's degree                                  | 64,260                                  |
| 25-1124  | Foreign Language and Literature Teachers, Postsecondary     | 530                                      | 720                                      | 190                         | 35.8%                       | Doctoral degree                                    | 46,020                                  |
| 29-2055  | Surgical Technologists                                      | 1,710                                    | 2,320                                    | 610                         | 35.7%                       | Postsecondary vocational training                  | 35,470                                  |
| 25-1066  | Psychology Teachers, Postsecondary                          | 540                                      | 730                                      | 190                         | 35.2%                       | Doctoral degree                                    | 48,050                                  |
| 25-1081  | Education Teachers, Postsecondary                           | 1,310                                    | 1,770                                    | 460                         | 35.1%                       | Doctoral degree                                    | 46,930                                  |
| 15-1061  | Database Administrators                                     | 1,630                                    | 2,200                                    | 570                         | 35.0%                       | Bachelor's degree                                  | 54,730                                  |
| 25-1122  | Communications Teachers, Postsecondary                      | 830                                      | 1,120                                    | 290                         | 34.9%                       | Doctoral degree                                    | 51,060                                  |

### Notes:

- (1) Only industries with 2012 projected employment of 500 or more are included in the rankings.
- (2) Employment includes self-employed and unpaid family workers. Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding.

- (3) Typical Education and Training Path gives a general indication of the education or training typically needed in the occupation.  
There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.

Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

Associate Degree: This degree requires two years of full-time academic work beyond high school.

Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.

Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.

- (4) Average Annual Salary: An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.

Information is derived using the May 2003 OES Survey, 2002 QCEW and 2002 CES (3/03 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2002 to 2012. It is important to note that unanticipated events may affect the accuracy of these projections.

**Source:** Office of Economic Advisors, Wisconsin Department of Workforce Development

July 2004

**Contact:** Karin Wells, Economist

(608) 264-7841

karin.wells@dwd.state.wi.us