

**Nontraditional for Females-2004**

| <b>BLS<br/>SOC Code</b> | <b>BLS Occupation Title</b>                       | <b>Percent<br/>Female</b>       | <b>NCES<br/>CIP Code</b> | <b>NCES Education Program Title</b>   | <b>USDOE Career Cluster</b>                                     |         |                                     |                             |
|-------------------------|---|---------------------------------|--------------------------|---|---|---------|-------------------------------------|-----------------------------|
| 11.1011                 | Chief executive                                   | 23.3                            | 44.0401                  | Public Administration   | Business & Administration<br>Government & Public Administration |         |                                     |                             |
|                         |   |                                 | 44.0501                  | Public Policy Analysis  | Business & Administration<br>Government & Public Administration |         |                                     |                             |
|                         |   |                                 | 44.9999                  | Public Administration & Services, Other   | Business & Administration<br>Government & Public Administration |         |                                     |                             |
|                         |   |                                 | 52.0101                  | Business/Commerce, General  | Business & Administration                                       |         |                                     |                             |
|                         |   |                                 | 52.0201                  | Business Administration/Management  | Business & Administration                                       |         |                                     |                             |
|                         |   |                                 | 52.0209                  | Transportation/Transportation Management  | Business & Administration                                       |         |                                     |                             |
|                         |   |                                 | 52.0701                  | Entrepreneurship/Entrepreneurial Studies  | Business & Administration                                       |         |                                     |                             |
|                         |   |                                 | 52.1101                  | International Business/Trade/Commerce   | Business & Administration                                       |         |                                     |                             |
|                         |   |                                 | 11-3051                  | Industrial production manager   | 18.0  | 52.0101 | Business/Commerce, General          | Business & Administration   |
|                         |   |                                 |                          |   |   | 52.0201 | Business Administration/Management  | Manufacturing               |
| 52.0205                 | Operations Management & Supervision               | Manufacturing                   |                          |   |   |         |                                     |                             |
| 11-3071                 | Transportation, storage, and distribution manager | 14.9                            | 44.0401                  | Public Administration   | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 49.0101                  | Aeronautics/Aviation/Aerospace Science & Aviation/Airway Management & Operations    | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 49.0104                  | Aviation/Airway Management & Operations   | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 52.0101                  | Business/Commerce, General  | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 52.0201                  | Business Administration/Management  | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 52.0203                  | Logistics & Materials Management  | Transportation, Distribution, & Logistics                       |         |                                     |                             |
|                         |   |                                 | 52.0203                  | Transportation/Transportation Management  | Transportation, Distribution, & Logistics                       |         |                                     |                             |
| 11-9011                 | Farm, ranch and other agricultural manager        | 20.1                            | 1.0101                   | Agricultural Business & Management, General   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0102                   | Agribusiness/Agricultural Business Operations                                       | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0104                   | Farm/Farm & Ranch Management  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0199                   | Agricultural Business & Management, Other   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0301                   | Agricultural Production Operations, General   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0302                   | Animal/Livestock Husbandry & Production   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0304                   | Crop Production   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0306                   | Dairy Husbandry & Production (New)  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0307                   | Horse Husbandry/Equine Science & Agricultural Production Operations, Other          | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0399                   | Agricultural Production Operations, Other   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0603                   | Ornamental Horticulture   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0604                   | Greenhouse Operations & Management  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0606                   | Plant Nursery Operations & Management   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0901                   | Animal Sciences, General  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0902                   | Agricultural Animal Breeding  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0904                   | Animal Nutrition  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0905                   | Dairy Science   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0906                   | Livestock Management (New)  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.0907                   | Poultry Science (New)   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.1101                   | Plant Sciences, General   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.1102                   | Agronomy & Crop Science   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.1103                   | Horticultural Science   | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.1105                   | Plant Protection & Integrated Pest Management                                       | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 1.1106                   | Range Science & Management  | Agriculture/Natural Resource                                    |         |                                     |                             |
|                         |   |                                 | 11-9021                  | Construction manager  | 6.4   | 15.1001 | Construction Engineering            | Architecture & Construction |
|                         |   |                                 |                          |   |   | 52.0201 | Business Administration/Management  | Architecture & Construction |
|                         |   |                                 |                          |   |   | 52.0101 | Business/Commerce, General          | Architecture & Construction |
|                         |   |                                 |                          |   |   | 52.0205 | Operations Management & Supervision | Architecture & Construction |
| 11-9041                 | Engineering manager                               | 5.9                             | 4.0201                   | Architecture (BArch, BA/BS, MArch, MA/MS, City/Urban, Community & Regional Planning | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 4.0301                   | City/Urban, Community & Regional Planning   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 4.0401                   | Environmental Design/Architecture   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 4.0501                   | Interior Architecture   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 4.0601                   | Landscape Architecture (BS, BSLA, BLA,  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0101                  | Engineering, General  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0201                  | Aerospace, Aeronautical & Astronautical   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0301                  | Agricultural/Biological Engineering & Architectural Engineering                     | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0401                  | Architectural Engineering   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0501                  | Biomedical/Medical Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0601                  | Ceramic Sciences & Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0701                  | Chemical Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0801                  | Civil Engineering, General  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0802                  | Geotechnical Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0803                  | Structural Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0804                  | Transportation & Highway Engineering  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0805                  | Water Resources Engineering   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0899                  | Civil Engineering, Other  | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0901                  | Computer Engineering, General   | Scientific Research/Engineering                                 |         |                                     |                             |
|                         |   |                                 | 14.0902                  | Computer Hardware Engineering (New)   | Scientific Research/Engineering                                 |         |                                     |                             |
| 14.0903                 | Computer Software Engineering (New)               | Scientific Research/Engineering |                          |   |   |         |                                     |                             |

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|---------------|--|----------------|---------------|---|---------------------------------|
|               |  |                | 14.0999       | Computer Engineering, Other (New)         | Scientific Research/Engineering |
|               |  |                | 14.1001       | Electrical, Electronics & Communications  | Scientific Research/Engineering |
|               |  |                | 14.1101       | Engineering Mechanics                     | Scientific Research/Engineering |
|               |  |                | 14.1201       | Engineering Physics                       | Scientific Research/Engineering |
|               |  |                | 14.1301       | Engineering Science                       | Scientific Research/Engineering |
|               |  |                | 14.1401       | Environmental/Environmental Health        | Scientific Research/Engineering |
|               |  |                | 14.1801       | Materials Engineering                     | Scientific Research/Engineering |
|               |  |                | 14.1901       | Mechanical Engineering                    | Scientific Research/Engineering |
|               |  |                | 14.2001       | Metallurgical Engineering                 | Scientific Research/Engineering |
|               |  |                | 14.2101       | Mining & Mineral Engineering              | Scientific Research/Engineering |
|               |  |                | 14.2201       | Naval Architecture & Marine Engineering   | Scientific Research/Engineering |
|               |  |                | 14.2301       | Nuclear Engineering                       | Scientific Research/Engineering |
|               |  |                | 14.2401       | Ocean Engineering                         | Scientific Research/Engineering |
|               |  |                | 14.2501       | Petroleum Engineering                     | Scientific Research/Engineering |
|               |  |                | 14.2701       | Systems Engineering                       | Scientific Research/Engineering |
|               |  |                | 14.2801       | Textile Sciences & Engineering            | Scientific Research/Engineering |
|               |  |                | 14.3101       | Materials Science                         | Scientific Research/Engineering |
|               |  |                | 14.3201       | Polymer/Plastics Engineering              | Scientific Research/Engineering |
|               |  |                | 14.3301       | Construction Engineering (New)            | Scientific Research/Engineering |
|               |  |                | 14.3401       | Forest Engineering (New)                  | Scientific Research/Engineering |
|               |  |                | 14.3501       | Industrial Engineering (New)              | Scientific Research/Engineering |
|               |  |                | 14.3601       | Manufacturing Engineering (New)           | Scientific Research/Engineering |
|               |  |                | 14.3801       | Surveying Engineering (New)               | Scientific Research/Engineering |
|               |  |                | 14.3901       | Geological/Geophysical Engineering (New)  | Scientific Research/Engineering |
|               |  |                | 14.9999       | Engineering, Other                        | Scientific Research/Engineering |
| 13-1051       | Cost estimator                                   | 17.7           | 14.1801       | Materials Engineering                     | Architecture & Construction     |
|               |  |                | 14.1901       | Mechanical Engineering                    | Architecture & Construction     |
|               |  |                | 14.3301       | Construction Engineering (New)            | Architecture & Construction     |
|               |  |                | 14.3601       | Manufacturing Engineering (New)           | Architecture & Construction     |
|               |  |                | 15.1001       | Construction Engineering                  | Architecture & Construction     |
|               |  |                | 52.0101       | Business/Commerce, General (New)          | Architecture & Construction     |
|               |  |                | 52.0201       | Business Administration/Management        | Architecture & Construction     |
| 15-1071       | Network and computer systems administrator       | 20.3           | 11.0101       | Computer & Information Sciences, General  | Information Technology          |
|               |  |                | 11.0401       | Information Science/Studies               | Information Technology          |
|               |  |                | 11.0501       | Computer Systems Analysis/Analyst         | Information Technology          |
|               |  |                | 11.0901       | Computer Systems Networking &             | Information Technology          |
|               |  |                | 11.1001       | System Administration/Administrator (New) | Information Technology          |
|               |  |                | 11.1002       | System, Networking, & LAN/WAN             | Information Technology          |
|               |  |                | 11.1003       | Computer & Information Systems Security   | Information Technology          |
|               |  |                | 11.9999       | Computer & Information Sciences & Support | Information Technology          |
|               |  |                | 11.1003       | Computer & Information Systems Security   | Information Technology          |
| 15-1081       | Network systems and data communications analyst  | 21.9           | 11.0101       | Computer & Information Sciences, General  | Information Technology          |
|               |  |                | 11.0103       | Information Technology (New)              | Information Technology          |
|               |  |                | 11.0501       | Computer Systems Analysis/Analyst         | Information Technology          |
|               |  |                | 11.0901       | Computer Systems Networking &             | Information Technology          |
|               |  |                | 11.1003       | Computer & Information Systems Security   | Information Technology          |
| 17-1011       | Architects, except naval                         | 24.0           | 4.0201        | Architecture (BArch, BA/BS, MArch, MA/MS, | Architecture & Construction     |
|               |  |                | 4.0401        | Environmental Design/Architecture         | Architecture & Construction     |
|               |  |                | 4.0801        | Architectural History & Criticism (New)   | Architecture & Construction     |
|               |  |                | 4.9999        | Architecture & Related Programs, Other    | Architecture & Construction     |
| 17-2011       | Aerospace engineer                               | 11.3           | 14.0201       | Aerospace, Aeronautical & Astronautical   | Scientific Research/Engineering |
| 17-2041       | Chemical engineer                                | 15.8           | 14.0701       | Chemical Engineering                      | Scientific Research/Engineering |
| 17-2051       | Civil engineer                                   | 11.7           | 14.0801       | Civil Engineering, General                | Scientific Research/Engineering |
|               |  |                | 14.0804       | Transportation & Highway Engineering      | Scientific Research/Engineering |
|               |  |                | 14.0805       | Water Resources Engineering               | Scientific Research/Engineering |
|               |  |                | 14.0899       | Civil Engineering, Other                  | Scientific Research/Engineering |
| 17-2061       | Computer hardware engineer                       | 12.7           | 14.0901       | Computer Engineering, General             | Information Technology          |
|               |  |                | 14.0902       | Computer Hardware Engineering (New)       | Information Technology          |
| 17-2071,2     | Electrical and electronics engineer              | 7.9            | 14.1001       | Electrical, Electronics & Communications  | Scientific Research/Engineering |
| 17-2110       | Industrial engineer, including health and safety | 18.8           | 14.1401       | Environmental/Environmental Health        | Scientific Research/Engineering |
|               |  |                | 14.3501       | Industrial Engineering (New)              | Scientific Research/Engineering |
| 17-2141       | Mechanical engineer                              | 5.8            | 14.1901       | Mechanical Engineering                    | Scientific Research/Engineering |
| 17-3011,2,3,9 | Drafter  | 23.7           | 4.0901        | Architectural Technology/Technician (New) | Architecture & Construction     |
|               |  |                | 15.1301       | Drafting & Design Technology/Technician,  | Architecture & Construction     |

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|                   |   |                | 15.1302       | CAD/CADD Drafting &/or Design                 | Architecture & Construction               |
|                   |   |                | 15.1303       | Architectural Drafting & Architectural        | Architecture & Construction               |
|                   |   |                | 15.1304       | Civil Drafting & Civil Engineering CAD/CADD   | Architecture & Construction               |
|                   |   |                | 15.1305       | Electrical/Electronics Drafting &             | Architecture & Construction               |
|                   |   |                | 15.1306       | Mechanical Drafting & Mechanical Drafting     | Architecture & Construction               |
|                   |   |                | 15.1399       | Drafting/Design Engineering                   | Architecture & Construction               |
| 17-3021,2,3,6,7,9 | Engineering technician, except drafter                        | 19.7           | 15.0101       | Architectural Engineering                     | Manufacturing                             |
|                   |   |                | 15.0201       | Civil Engineering Technology/Technician       | Manufacturing                             |
|                   |   |                | 15.0303       | Electrical, Electronic & Communications       | Manufacturing                             |
|                   |   |                | 15.0304       | Laser & Optical Technology/Technician         | Manufacturing                             |
|                   |   |                | 15.0305       | Telecommunications Technology/Technician      | Manufacturing                             |
|                   |   |                | 15.0399       | Electrical & Electronic Engineering           | Manufacturing                             |
|                   |   |                | 15.0503       | Energy Management & Systems                   | Manufacturing                             |
|                   |   |                | 15.0505       | Solar Energy Technology/Technician            | Manufacturing                             |
|                   |   |                | 15.0507       | Environmental Engineering                     | Agriculture/Natural Resource              |
|                   |   |                | 15.0599       | Environmental Control                         | Manufacturing                             |
|                   |   |                | 15.0607       | Plastics Engineering Technology/Technician    | Manufacturing                             |
|                   |   |                | 15.0611       | Metallurgical Technology/Technician           | Manufacturing                             |
|                   |   |                | 15.0612       | Industrial Technology/Technicians             | Manufacturing                             |
|                   |   |                | 15.0613       | Manufacturing Technology/Technician (New)     | Manufacturing                             |
|                   |   |                | 15.0699       | Industrial Production                         | Manufacturing                             |
|                   |   |                | 15.0704       | Hazardous Materials Information Systems       | Agriculture/Natural Resource              |
|                   |   |                | 15.0801       | Aeronautical/Aerospace Engineering            | Transportation, Distribution, & Logistics |
|                   |   |                | 15.0805       | Mechanical Engineering/Mechanical             | Manufacturing                             |
|                   |   |                | 15.0899       | Mechanical Engineering Related                | Manufacturing                             |
|                   |   |                | 15.0901       | Mining Technology/Technician                  | Manufacturing                             |
|                   |   |                | 15.0999       | Mining & Petroleum Technologies/Technicians,  | Manufacturing                             |
|                   |   |                | 15.1001       | Construction Engineering                      | Manufacturing                             |
|                   |   |                | 15.1103       | Hydraulics & Fluid Power                      | Manufacturing                             |
|                   |   |                | 15.1202       | Computer Technology/Computer Systems          | Manufacturing                             |
|                   |   |                | 15.1501       | Industrial Management (New)                   | Manufacturing                             |
|                   |   |                | 15.9999       | Engineering Related                           | Manufacturing                             |
| 17-3030           | Surveying and mapping technician                              | 12.2           | 15.1102       | Surveying Technology/Surveying                | Scientific Research/Engineering           |
|                   |   |                | 45.0702       | Cartography                                   | Scientific Research/Engineering           |
| 21-2011           | Clergy  | 15.0           | 39.0601       | Theology/Theological Studies                  | Human Service                             |
|                   |   |                | 39.0602       | Divinity/Ministry (BD, MDiv.)                 | Human Service                             |
|                   |   |                | 39.0605       | Rabbinical Studies (M.H.L./Rav)               | Human Service                             |
|                   |   |                | 39.0604       | Pre-Theology/Pre-Ministerial Studies          | Human Service                             |
|                   |   |                | 39.0699       | Theological & ministerial Studies, Other      | Human Service                             |
|                   |   |                | 39.0701       | Pastoral Studies/Counseling                   | Human Service                             |
|                   |   |                | 39.0702       | Youth Ministry (New)                          | Human Service                             |
|                   |   |                | 39.0799       | Pastoral Counseling & Specialized Ministries, | Human Service                             |
|                   |   |                | 39.9999       | Theological Studies & Religious Vocations,    | Human Service                             |
|                   |   |                | 51.1506       | Clinical Pastoral Counseling/Patient          | Human Service                             |
| 27-3011           | Announcer   | 21.6           | 1.0802        | Agricultural Communications/Journalism        | Arts, A/V Technology & Communication      |
|                   |   |                | 9.0402        | Broadcast Journalism                          | Arts, A/V Technology & Communication      |
| 27-4011/2         | Broadcast and sound engineering technician and radio operator | 12.1           | 9.0701        | Radio & Television                            | Arts, A/V Technology & Communication      |
|                   |   |                | 10.0105       | Communications Technology/Technician          | Arts, A/V Technology & Communication      |
|                   |   |                | 10.0201       | Photographic & Film/Video                     | Arts, A/V Technology & Communication      |
|                   |   |                | 10.0202       | Radio & Television Broadcasting               | Arts, A/V Technology & Communication      |
|                   |   |                | 10.0203       | Recording Arts Technology/Technician (New)    | Arts, A/V Technology & Communication      |
|                   |   |                | 10.0299       | Audiovisual Communications                    | Arts, A/V Technology & Communication      |
|                   |   |                | 47.0103       | Communications Systems Installation & Repair  | Law & Public Safety                       |
| 29-1011           | Chiropractor  | 22.7           | 51.0101       | Chiropractic (DC)                             | Health Science                            |
| 29-1021,2,3,4,9   | Dentist   | 22.0           | 51.0401       | Dentistry (DDS, DMD)                          | Health Science                            |
|                   |   |                | 51.0501       | Dental Clinical Sciences, General (MS, PhD)   | Health Science                            |
|                   |   |                | 51.0502       | Advanced General Dentistry (Cert, MS, PhD)    | Health Science                            |
|                   |   |                | 51.0503       | Oral Biology & Pathology (MS, PhD) (New)      | Health Science                            |
|                   |   |                | 51.0504       | Dental Public Health & Education (Cert,       | Health Science                            |
|                   |   |                | 51.0505       | Dental Materials (MS, PhD) (New)              | Health Science                            |
|                   |   |                | 51.0506       | Endodontics/Endodontology (Cert, MS, PhD)     | Health Science                            |
|                   |   |                | 51.0507       | Oral/Maxillofacial Surgery (Cert, MS, PhD)    | Health Science                            |
|                   |   |                | 51.0508       | Orthodontics/Orthodontology (Cert, MS, PhD)   | Health Science                            |
|                   |   |                | 51.0509       | Pediatric Dentistry/Pedodontics (Cert, MS,    | Health Science                            |
|                   |   |                | 51.0510       | Periodontics/Periodontology (Cert, MS, PhD)   | Health Science                            |
|                   |   |                | 51.0511       | Prosthodontics/Prosthodontology (Cert, MS,    | Health Science                            |
|                   |   |                | 51.0599       | Advanced/Graduate Dentistry & Oral Sciences,  | Health Science                            |
|                   |   |                | 60.0101       | Dental/Oral Surgery Specialty                 | Health Science                            |
|                   |   |                | 60.0102       | Dental Public Health Specialty                | Health Science                            |
|                   |   |                | 60.0103       | Endodontics Specialty                         | Health Science                            |
|                   |   |                | 60.0104       | Oral Pathology Specialty                      | Health Science                            |

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|               |  |                | 60.0105  | Orthodontics Specialty  | Health Science                     |
|               |  |                | 60.0106  | Pedodontics Specialty   | Health Science                     |
|               |  |                | 60.0107  | Periodontics Specialty  | Health Science                     |
|               |  |                | 60.0108  | Prosthodontics Specialty  | Health Science                     |
|               |  |                | 60.0199  | Dental Residency Program, Other   | Health Science                     |
| 33-1012       | Front-line supervisor/mgr of police and detectives                                     | 21.2           | 43.0102  | Corrections   | Law & Public Safety                |
|               |  |                | 43.0103  | Criminal Justice/Law Enforcement  | Law & Public Safety                |
|               |  |                | 43.0104  | Criminal Justice/Safety Studies   | Law & Public Safety                |
| 33-2011       | Fire fighter   | 5.1            | 43.0203  | Fire Science/Firefighting   | Law & Public Safety                |
|               |  |                | 43.0299  | Fire Protection, Other  | Law & Public Safety                |
| 33-3021       | Detective and criminal investigator  | 20.2           | 43.0107  | Criminal Justice/Police Science   | Law & Public Safety                |
|               |  |                | 43.0111  | Criminalistics & Criminal Science (New)                                     | Law & Public Safety                |
| 33-3051       | Police and sheriff's patrol officer  | 13.3           | 43.0107  | Criminal Justice/Police Science   | Law & Public Safety                |
|               |  |                | 43.0111  | Criminalistics & Criminal Science (New)                                     | Law & Public Safety                |
| 33-9031       | Security guards and gaming surveillance officers                                       | 22.6           | 99.9990  | No related CIP programs   | Law & Public Safety                |
|               |  |                | 43.0109  | Security & Loss Prevention Services   | Law & Public Safety                |
|               |  |                | 43.0112  | Securities Services   | Law & Public Safety                |
| 35-1011       | Chefs and head cooks   | 18.9           | 12.0503  | Culinary Arts/Chef Training   | Hospitality & Tourism              |
| 35-9021       | Dishwashers  | 23.8           | 12.0505  | Food Preparation/Professional Cooking/Kitchen                               | Hospitality & Tourism              |
| 37-1012       | First-line supervisor/manager of landscaping, lawn service, and groundskeeping workers | 8.1            | 1.0603   | Ornamental Horticulture   | Agriculture/Natural Resource       |
|               |  |                | 1.0605   | Landscaping & Groundskeeping  | Agriculture/Natural Resource       |
|               |  |                | 1.0607   | Turf & Turfgrass Management   | Agriculture/Natural Resource       |
| 37-2020       | Pest control workers   | 7.1            | 1.0105   | Agricultural/Farm Supplies Retailing &                                      | Agriculture/Natural Resource       |
| 37-3011,2,3,9 | Grounds maintenance workers  | 7.1            | 1.0601   | Applied Horticulture/Horticultural Operations, Landscaping & Groundskeeping | Agriculture/Natural Resource       |
|               |  |                | 1.0605   | Landscaping & Groundskeeping  | Agriculture/Natural Resource       |
|               |  |                | 1.0606   | Plant Nursery Operations & Management                                       | Agriculture/Natural Resource       |
|               |  |                | 1.0607   | Turf & Turfgrass Management   | Agriculture/Natural Resource       |
|               |  |                | 1.0699   | Horticultural Service Operations, Other                                     | Agriculture/Natural Resource       |
| 39-5011       | Barber   | 18.4           | 12.0402  | Barbering/Barber  | Retail & Wholesale Sales & Service |
| 39-6011       | Baggage porters, bellhops, concierges  | 17.5           | 99.9990  | No related CIP programs   | Hospitality & Tourism              |
| 41-2022       | Parts salesperson  | 12.4           | 52.1804  | Selling Skills & Sales Operations   | Retail & Wholesale Sales & Service |
|               |  |                | 52.1907  | Vehicle Parts & Accessories Marketing                                       | Retail & Wholesale Sales & Service |
| 43-5020       | Courier and messenger  | 14.8           | 99.9990  | No related CIP programs   | Business & Administration          |
| 45-1011       | First-line supervisor/manager of farming, fishing                                      | 11.3           | 1.0104   | Farm/Farm & Ranch Management  | Agriculture/Natural Resource       |
|               |  |                | 1.0199   | Agricultural Business & Management, Other                                   | Agriculture/Natural Resource       |
|               |  |                | 1.0301   | Agricultural Production Operations, General                                 | Agriculture/Natural Resource       |
|               |  |                | 1.0302   | Animal/Livestock Husbandry & Production                                     | Agriculture/Natural Resource       |
|               |  |                | 1.0303   | Aquaculture   | Agriculture/Natural Resource       |
|               |  |                | 1.0304   | Crop Production   | Agriculture/Natural Resource       |
|               |  |                | 1.0306   | Dairy Husbandry & Production (New)  | Agriculture/Natural Resource       |
|               |  |                | 1.0307   | Horse Husbandry/Equine Science &  | Agriculture/Natural Resource       |
|               |  |                | 1.0399   | Agricultural Production Operations, Other                                   | Agriculture/Natural Resource       |
|               |  |                | 1.0901   | Animal Sciences, General  | Agriculture/Natural Resource       |
|               |  |                | 1.0902   | Agricultural Animal Breeding  | Agriculture/Natural Resource       |
|               |  |                | 1.0904   | Animal Nutrition  | Agriculture/Natural Resource       |
|               |  |                | 1.0905   | Dairy Science   | Agriculture/Natural Resource       |
|               |  |                | 1.0906   | Livestock Management (New)  | Agriculture/Natural Resource       |
|               |  |                | 1.0907   | Poultry Science (New)   | Agriculture/Natural Resource       |
|               |  |                | 1.1101   | Plant Sciences, General   | Agriculture/Natural Resource       |
|               |  |                | 1.1102   | Agronomy & Crop Science   | Agriculture/Natural Resource       |
|               |  |                | 1.1106   | Range Science & Management  | Agriculture/Natural Resource       |
|               |  |                | 1.9999   | Agriculture, Agricultural Operations, & Related                             | Agriculture/Natural Resource       |
|               |  |                | 3.0301   | Fishing & Fisheries Sciences & Management                                   | Agriculture/Natural Resource       |
| 45-4020       | Logging worker   | 2.9            | 3.0510   | Forest Resources Production & Management                                    | Agriculture/Natural Resource       |
| 47-1010       | First-line supervisor/manager of construction trade                                    | 2.2            | 46.0101  | Masonry/Mason   | Architecture & Construction        |
|               |  |                | 46.0201  | Carpentry/Carpenter   | Architecture & Construction        |
|               |  |                | 46.0301  | Electrical & Power Transmission   | Architecture & Construction        |
|               |  |                | 46.0302  | Electrician   | Architecture & Construction        |
|               |  |                | 46.0303  | Lineworker  | Architecture & Construction        |

**Nontraditional for Females-2004**

| BLS SOC Code      | BLS Occupation Title   | Percent Female | NCES CIP Code | NCES Education Program Title                    | USDOE Career Cluster         |
|-------------------|--|----------------|---------------|---|------------------------------|
|                   |  |                | 46.0399       | Electrical & Power Transmission Installers,     | Architecture & Construction  |
|                   |  |                | 46.0401       | Building/property Maintenance and               | Architecture & Construction  |
|                   |  |                | 46.0402       | Concrete Finishing/Concrete Finisher (New)      | Architecture & Construction  |
|                   |  |                | 46.0403       | Building/Home/Construction                      | Architecture & Construction  |
|                   |  |                | 46.0404       | Drywall Installation/Drywaller (New)            | Architecture & Construction  |
|                   |  |                | 46.0406       | Glazier (New)                                   | Architecture & Construction  |
|                   |  |                | 46.0408       | Painting/Painter & Wall Coverer                 | Architecture & Construction  |
|                   |  |                | 46.0410       | Roofer (New)                                    | Architecture & Construction  |
|                   |  |                | 46.0412       | Building/Construction Site                      | Architecture & Construction  |
|                   |  |                | 46.0499       | Building/Construction Finishing, Management,    | Architecture & Construction  |
|                   |  |                | 46.0503       | Plumbing Technology/Plumber (New)               | Architecture & Construction  |
|                   |  |                | 46.0504       | Well Drilling/Driller (New)                     | Architecture & Construction  |
|                   |  |                | 46.0505       | Blasting/Blaster (New)                          | Architecture & Construction  |
|                   |  |                | 46.9999       | Building/Construction Trades, Other             | Agriculture/Natural Resource |
| 47-2021,2         | Brickmason, blockmason, and stonemason                               | 0.9            | 46.0101       | Masonry/Mason                                   | Architecture & Construction  |
| 47-2031           | Carpenter  | 1.8            | 46.0201       | Carpentry/Carpenter                             | Architecture & Construction  |
| 47-2041,2,3,4     | Carpet, floor, and tile installer and finisher                       | 1.9            | 46.9999       | Building/Construction Trades, Other             | Architecture & Construction  |
|                   |  |                | 46.0101       | Masonry/Mason                                   | Architecture & Construction  |
| 47-2051,3         | Cement mason, concrete finisher, and terrazzo worker                 | 0.2            | 46.0402       | Concrete Finishing/Concrete Finisher (New)      | Architecture & Construction  |
|                   |  |                | 46.0499       | Building/property Maintenance and               | Architecture & Construction  |
|                   |  |                | 46.0499       | Building/Construction Finishing, Management,    | Architecture & Construction  |
| 47-2061           | Construction laborer   | 3.2            | 46.9999       | Building/Construction Trades, Other             | Architecture & Construction  |
| 47-2071           | Operating engineer and other construction equipment operator         | 1.0            | 49.0202       | Construction/Heavy Equipment/Earthmoving        | Architecture & Construction  |
|                   |  |                | 49.0206       | Mobil Crane Operation/Operator (New)            | Architecture & Construction  |
| 47-2081,2         | Drywall installer, ceiling tile installer and taper                  | 1.1            | 46.0404       | Drywall Installation/Drywaller (New)            | Architecture & Construction  |
|                   |  |                | 46.9999       | Building/Construction Trades, Other             | Architecture & Construction  |
| 47-2110           | Electrician  | 2.1            | 46.0302       | Electrician                                     | Architecture & Construction  |
| 47-2141           | Painter, construction and maintenance                                | 5.8            | 46.0408       | Painting/Painter & Wall Coverer                 | Architecture & Construction  |
| 47-2151,2         | Pipelayer, plumber, pipefitter, and steamfitter                      | 0.9            | 46.0502       | Pipefitting/Pipefitter & Sprinkler Fitter (New) | Architecture & Construction  |
|                   |  |                | 46.0503       | Plumbing Technology/Plumber (New)               | Architecture & Construction  |
|                   |  |                | 46.0599       | Plumbing and Related Water Supply Services,     | Architecture & Construction  |
| 47-2180           | Roofer   | 1.3            | 46.0410       | Roofer (New)                                    | Architecture & Construction  |
| 47-2210           | Sheet metal worker   | 4.0            | 48.0506       | Sheet Metal Technology/Sheetworking             | Architecture & Construction  |
| 47-2220           | Structural iron and and steel worker                                 | 0.8            | 46.0411       | Metal Building Assembly/Assembler (New)         | Architecture & Construction  |
|                   |  |                | 46.9999       | Building/Construction Trades, Other             | Architecture & Construction  |
| 47-3011,2,3,4,5,6 | Helper, construction trade   | 5.3            | 46.0101       | Masonry/Mason                                   | Architecture & Construction  |
|                   |  |                | 46.0201       | Carpentry/Carpenter                             | Architecture & Construction  |
|                   |  |                | 46.0302       | Electrician                                     | Architecture & Construction  |
|                   |  |                | 46.0402       | Concrete Finishing/Concrete Finisher (New)      | Architecture & Construction  |
|                   |  |                | 46.0404       | Drywall Installation/Drywaller (New)            | Architecture & Construction  |
|                   |  |                | 46.0406       | Glazier (New)                                   | Architecture & Construction  |
|                   |  |                | 46.0408       | Painting/Painter & Wall Coverer                 | Architecture & Construction  |
|                   |  |                | 46.0410       | Roofer (New)                                    | Architecture & Construction  |
|                   |  |                | 46.0503       | Plumbing Technology/Plumber (New)               | Architecture & Construction  |
| 47-4011           | Construction and building inspector                                  | 12.4           | 46.0403       | Building/Home/Construction                      | Architecture & Construction  |
| 47-4051           | Highway maintenance worker   | 2.7            | 49.0202       | Construction/Heavy Equipment/Earthmoving        | Architecture & Construction  |
| 49-1011           | First-line supervisor/manager of mechanics, installers and repairers | 7.1            | 52.0205       | Operations Management & Supervision             | Manufacturing                |
| 49-2011           | Computer, automated teller, and machine repair                       | 12.0           | 47.0102       | Business Machine Repair                         | Information Technology       |
|                   |  |                | 47.0104       | Computer Installation & Repair                  | Information Technology       |
| 49-2021,2         | Radio and telecommunications equipment installer and repairer        | 13.6           | 47.0103       | Communications Systems Installation & Repair    | Information Technology       |
| 49-2092           | Electric motor, power tool, and                                      | 3.2            | 47.0101       | Electrical/Electronics Equipment Installation & | Manufacturing                |

**Nontraditional for Females-2004**

| BLS SOC Code    | BLS Occupation Title   | Percent Female | NCES CIP Code  | NCES Education Program Title   | USDOE Career Cluster  |
|-----------------|--|----------------|--|--|---|
|                 | related repair   |                |  |  |   |
| 49-2098         | Security and fire alarm systems installer  | 3.9            | 46.0302<br>47.0110   | Electrician<br>Security System Installation, Repair, &   | Architecture & Construction<br>Architecture & Construction  |
| 49-3011         | Aircraft mechanic and service technician   | 3.4            | 47.0607<br>47.0608<br>1.0205                                   | Airframe Mechanics & Aircraft Maintenance<br>Aircraft Powerplant Technology/Technician<br>Agricultural Mechanics & Equipment/Machine   | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics   |
| 49-3021         | Automotive body and related repairer   | 2.4            | 47.0603  | Autobody/Collision & Repair Technology &   | Transportation, Distribution, & Logistics   |
| 49-3023         | Automotive service technician and mechanic   | 1.3            | 15.0803<br>47.0604<br>47.0612<br>47.0613<br>47.0614            | Automotive Engineering<br>Automobile/Automotive<br>Vehicle Emissions Inspection & Maintenance<br>Medium/Heavy Vehicle & Truck<br>Alternative Fuel Vehicle Technology/Technician  | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics |
| 49-3031         | Bus and truck mechanic and diesel engine specialist  | 0.6            | 47.0605<br>47.0613   | Diesel Mechanics Technology/Technician<br>Medium/Heavy Vehicle & Truck   | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics  |
| 49-3041,2,3     | Heavy vehicle and mobile equipment service technician and mechanic                             | 0.3            | 1.0201<br>1.0204<br>1.0205<br>1.0299<br>47.0302                | Agricultural Mechanization, General<br>Agricultural Power Machinery Operation<br>Agricultural Mechanics & Equipment/Machine<br>Agricultural Mechanization, Other<br>Heavy Equipment  | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics |
| 49-3051,2,3     | Small engine mechanic  | 0.7            | 47.0606<br>47.0616<br>47.0611                                  | Small Engine Mechanics & Repair Technology<br>Marine Maintenance/Fitter & Ship Repair<br>Motorcycle Maintenance & Repair   | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics   |
| 49-9021         | Heating, air conditioning, and refrigeration   | 1.5            | 15.0501<br><br>15.0505<br><br>47.0201                          | Heating, Air Conditioning & Refrigeration<br><br>Solar Energy Technology/Technician<br><br>Heating, Air Conditioning, Ventilation &  | Architecture & Construction<br>Manufacturing<br>Architecture & Construction<br>Manufacturing<br>Architecture & Construction<br>Manufacturing  |
| 49-9041         | Industrial and refractory machinery mechanic   | 3.7            | 47.0303<br>47.0399   | Industrial Mechanics & Maintenance<br>Heavy/Industrial Equipment Maintenance   | Manufacturing<br>Manufacturing  |
| 49-9042         | Maintenance and repair worker, general   | 4.1            | 46.0412  | Building/Construction Site   | Manufacturing   |
| 49-9044         | Millwright   | 3.1            | 47.0303<br>47.0399   | Industrial Mechanics & Maintenance<br>Heavy/Industrial Equipment Maintenance   | Manufacturing<br>Manufacturing  |
| 49-9051         | Electrical power-line installer and repairer   | 1.1            | 46.0301<br>46.0303<br>46.0399                                  | Electrical & Power Transmission<br>Lineworker<br>Electrical & Power Transmission Installers,   | Architecture & Construction<br>Architecture & Construction<br>Architecture & Construction   |
| 49-9052         | Telecommunications line installer and repairer   | 4.8            | 47.0103  | Communications Systems Installation & Repair   | Arts, A/V Technology & Communication  |
| 49-9061,2,3,4,9 | Precision instrument and equipment repairer  | 20.0           | 15.0401<br>15.0404<br>15.0499<br>47.0103<br>47.0404<br>47.0408 | Biomedical Technology/Technician<br>Instrumentation Technology/Technician<br>Electromechanical & Instrumentation &<br>Communications Systems Installation & Repair<br>Musical Instrument Fabrication & Repair<br>Watchmaking & Jewellerymaking | Manufacturing<br>Information Technology<br>Information Technology<br>Manufacturing<br>Arts, A/V Technology & Communication<br>Information Technology  |
| 49-9091         | Coin, vending, and amusement machine servicer and repairer                                     | 16.5           | 47.0199  | Electrical/Electronics Maintenance & Repair  | Arts, A/V Technology & Communication  |
| 51.1011         | First-line supervisor/manager of production and operating workers                              | 20.1           | 52.0205  | Operations Management & Supervision  | Manufacturing   |
| 51.3021,2,3     | Butcher and other meat, poultry, and fish processing worker                                    | 19.6           | 12.0506  | Meat Cutting/Meat Cutter   | Retail & Wholesale Sales & Service  |
| 51-4033         | Grinding, lapping, polishing, and machine tool setter, operator, and tender, metal and plastic | 11.0           | 48.0501<br>48.0503   | Machine Tool Technology/Machinist<br>Machine Shop Technology/Assistant   | Manufacturing<br>Manufacturing  |
| 51-4040         | Machinist  | 4.4            | 48.0501<br>48.0503   | Machine Tool Technology/Machinist<br>Machine Shop Technology/Assistant   | Manufacturing<br>Manufacturing  |

**Nontraditional for Females-2004**

| BLS<br>SOC Code | BLS Occupation Title  | Percent<br>Female | NCES<br>CIP Code                         | NCES Education Program Title  | USDOE Career Cluster   |
|-----------------|---|-------------------|--|---|--|
| 51-4070         | Molder and molding machine setter, operator and tender, metal and plastic | 24.9              | 48.0509                                  | Ironworking/Ironworker (New)  | Manufacturing  |
| 51-4111         | Tool and die maker  | 3.0               | 48.0507                                  | Tool & Die Technology/Technician  | Manufacturing  |
| 51-4120         | Welding, soldering, and brazing worker                                    | 5.0               | 48.0508                                  | Welding Technology/Welder   | Manufacturing  |
| 51-5021         | Job printer   | 21.2              | 10.0302<br>10.0305                       | Printing Management (New)<br>Graphic & Printing Equipment Operator,   | Arts, A/V Technology & Communication<br>Arts, A/V Technology & Communication   |
| 51-5023         | Printing machine operator   | 19.3              | 10.0302<br>10.0305<br>10.0307<br>10.0399 | Printing Management (New)<br>Graphic & Printing Equipment Operator,<br>Printing Press Operator<br>Graphic Communications, Other (New) | Arts, A/V Technology & Communication<br>Arts, A/V Technology & Communication<br>Arts, A/V Technology & Communication<br>Arts, A/V Technology & Communication |
| 51-7011         | Cabinetmaker and bench carpenter  | 4.4               | 48.0703                                  | Cabinetmaking & Millwork/Millwright   | Manufacturing  |
| 51-8021         | Stationary engineer and boiler operator                                   | 1.0               | 46.0401                                  | Building/property Maintenance and   | Architecture & Construction  |
| 51-8031         | Water and liquid waste treatment and system operator                      | 6.1               | 15.0506                                  | Water Quality & Wastewater Treatment  | Agriculture/Natural Resource   |
| 51-9011         | Chemical processing machine setter, operator, and tender                  | 14.0              | 41.0301                                  | Chemical Technology/Technician  | Manufacturing  |
| 51-9021,2,3     | Crushing, grinding, polishing, mixing and blending worker                 | 20.1              | 99.9990<br>1.0401                        | No related CIP programs<br>Agricultural & Food Products Processing,   | Manufacturing<br>Manufacturing   |
| 51-9121         | Painting worker   | 13.1              | 99.9990<br>47.0603<br>50.0409            | No related CIP programs<br>Autobody/Collision & Repair Technology &<br>Graphic Design (New)   | Manufacturing<br>Manufacturing<br>Manufacturing  |
| 51-9196         | Paper goods machine setter, operator, and tender                          | 19.3              | 99.9990                                  | No related CIP programs   | Manufacturing  |
| 51-9198         | Helper-production worker  | 21.1              | 99.9990                                  | No related CIP programs   | Manufacturing  |
| 53-1031         | Supervisor, transportation and material moving workers                    | 17.8              | 99.9990                                  | No related CIP programs   | Transportation, Distribution, & Logistics  |
| 53-2011         | Aircraft pilot flight engineer  | 5.3               | 49.0102<br>49.0108                       | Airline/Commercial/Professional Pilot & Flight<br>Flight Instructor   | Transportation, Distribution, & Logistics<br>Transportation, Distribution, & Logistics   |
| 53-3031         | Driver/sales worker and truck driver                                      | 4.5               | 52.1803<br>49.0205                       | Retailing & Retail Operations<br>Truck & Bus Driver/Commercial Vehicle  | Retail & Wholesale Sales & Service<br>Transportation, Distribution, & Logistics  |
| 53-3040         | Taxi driver and chauffeur   | 12.9              | 49.0205                                  | Truck & Bus Driver/Commercial Vehicle   | Transportation, Distribution, & Logistics  |
| 53-4031         | Railroad conductor and yardmaster   | 7.8               | 49.0205                                  | Truck & Bus Driver/Commercial Vehicle   | Transportation, Distribution, & Logistics  |
| 53-6021         | Parking lot attendant   | 13.3              | 99.9990                                  | No related CIP programs   | Retail & Wholesale Sales & Service   |
| 53-6031         | Service station attendant   | 8.7               | 99.9990                                  | No related CIP programs   | Retail & Wholesale Sales & Service   |
| 53-7021         | Crane and tower operator  | 4.0               | 49.0202<br>49.0206                       | Construction/Heavy Equipment/Earthmoving<br>Mobil Crane Operation/Operator (New)  | Architecture & Construction<br>Architecture & Construction   |
| 53-7031,2,3     | Dredge, excavating, and loading machine operator                          | 0.1               | 49.0202<br>49.0299                       | Construction/Heavy Equipment/Earthmoving<br>Vehicle & Equipment Operators, Other  | Architecture & Construction<br>Architecture & Construction<br>Agriculture/Natural Resource   |
| 53-7051         | Industrial truck and tractor operator                                     | 7.5               | 49.0299                                  | Vehicle & Equipment Operators, Other  | Transportation, Distribution, & Logistics  |
| 53-7061         | Cleaner of vehicles and equipment   | 11.9              | 99.9990                                  | No related CIP programs   | Transportation, Distribution, & Logistics  |
| 53-7062         | Laborer and freight, stock, and material mover, handler                   | 16.2              | 99.9990                                  | No related CIP programs   | Transportation, Distribution, & Logistics<br>Arts, A/V Technology & Communication  |
| 53-7080         | Refuse and recyclable material collector                                  | 8.2               | 99.9990                                  | No related CIP programs   | Transportation, Distribution, & Logistics  |

**Nontraditional for Females-2004**

| <b>BLS</b>      |                             | <b>Percent</b> | <b>NCES</b>     |                                     |                             |
|-----------------|-----------------------------|----------------|-----------------|-------------------------------------|-----------------------------|
| <b>SOC Code</b> | <b>BLS Occupation Title</b> | <b>Female</b>  | <b>CIP Code</b> | <b>NCES Education Program Title</b> | <b>USDOE Career Cluster</b> |

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**NOTES:**

Nontraditional occupations identified from 2004 Bureau of Labor Statistics (BLS) Household Data Annual Averages, Table 11 ([www.napequity.org/pdf/cpsaat11.pdf](http://www.napequity.org/pdf/cpsaat11.pdf)).

BLS Standard Occupations Classification (SOC) codes and titles from [www.bls.gov/soc](http://www.bls.gov/soc).

Crosswalk of NCES CIP codes to BLS SOC codes and USDOE Career Clusters found at <http://nces.ed.gov/pubs2002/cip2000/index.asp>.