

**SEATTLE/SHORELINE SKILLS CENTER FEASIBILITY STUDY  
PRELIMINARY REPORT  
APRIL 2007**

## **BACKGROUND**

Skills Center Definition – SSB5790 Skills Center Bill passed the legislature in the 2007 session put the following definition in state statute.

*A skills center is a regional career and technical education partnership established to provide access to comprehensive industry-defined career and technical programs of study that prepare students for careers, employment, apprenticeships, and post secondary education. The skills center is be operated by a host school district and governed by an administrative council in accordance with a cooperative agreement.*

### ***Skills Center Definitions (Current Structure)***

**A Skills Center** is a regional secondary school that serves high school students (juniors and seniors) from multiple school districts. (at least two)

**Skills Center Program** – a skills center provides instruction in preparatory programs that are either too expensive or too specialized for school districts (high schools) to operate individually. Some examples would be Dental Assisting, Auto Body Repair, Culinary Arts/Restaurant Management, Internetworking, Marine Technology, Medical Lab Technician, etc.

**Capstone Programs** - instructional programs provided at a skills center that build on what is offered as part of the local high school offerings. Skills center programs are a concentrated 540 hour course. A regular high school is 90-180 hour programs.

**Skills Center Day** – the students spend half of their school day at the skills center and half at their regular high school.

**Skills Center Summer School** – funded by the Legislature, students have the opportunity to attend a skills center program during the summer. The benefit to students:

- Provides expanded opportunities for the college-bound student with little time in their schedule during the school year for a skills center program.
- Allows younger students (9<sup>th</sup> & 10<sup>th</sup>) the opportunity to ‘check out’ the skills center for enrollment during the school year once they are junior status.
- Allows students already enrolled in a skills center program to continue their training during the summer.

**Industry-standard** – skills center instruction is to the standard of the industry. For example, a student enrolled in a medical sciences/nursing program will receive

instruction from a person from the industry (a nurse) and will be taught in a classroom that looks like a medical facility. The student will complete the program with certification necessary to be employed as a nurse assistant.

### **Washington Learns Goals and Strategies Addressed by Skills Centers**

- **Math and Science: A Competitive Edge**  
Get students excited about math and science, using public-private partnerships through a skills center.
- **Personalized Learning**  
Expand and make the most of learning time  
Establish specialized programs to reach students who have dropped out of school  
Use technology to personalize and expand learning opportunities  
Increase opportunities for career and technical education
- **College and Workforce: Increasing Opportunities**  
Give high school and college students the information and support they need to make informed decisions about the next steps in their educational careers

It is also important to know and understand the definition of Career and Technical Education used by the Seattle School District.

#### Definition of Career and Technical Education – Seattle Public Schools

*It is the policy of the Seattle School Board to maintain Career & Technical Education offerings in all four pathways\* in our District. Career & Technical Education that enables achievement of high academic standards; provides application of leadership skills; and prepares students for skilled, high wage employment and for opportunities in advanced and continuing education will be accessible to all secondary school students.*

*Career and Technical Education is a planned program of courses and learning experiences that explores career options; develops academic, employability and life skills; enables achievement of high academic standards; provides application of leadership skills; and prepares students for high skill wage employment and for opportunities in advanced and continuing education. CTE programs and courses offer real-world applications, meet many core academic standards, and make academic education more relevant to the adult lives for which they are preparing.*

*\*Arts, Communications & Media 2) Business, Marketing, & Information Technology  
3) Health & Human Services; 4) Science, Engineering & Industry*

## **SKILLS CENTER FEASIBILITY STUDY**

The 2006 Capital Budget included funding for four skills center feasibility studies in the state. Seattle was one of the sites selected for a study. The legislature would like to have a successful skills center in Seattle. There are currently ten skills centers statewide with a new one funded for Skagit Valley in the 2007 Capital Budget. A great deal can be learned from the successes of the current skills centers.

A feasibility study should include regional labor market analysis and educational needs assessment. SB5717 Skills Center Study recommended that two or more member school district must have a combined minimum student headcount population of 5,000 in ninth through twelfth grade. However, a single school district with an annual ninth through twelfth grade student headcount greater than 12,000 is eligible to form a skills center serving that single school district.

If two or more districts are involved, a cooperative agreement must be signed by the member school districts in accordance with WAC 180-31-030 (inter-district cooperative agreement). The cooperative agreement must be signed prior to districts sending students to a skills center.

An administrative council must endorse, in writing, the findings and recommendations of the skills center feasibility study. A resolution stating the intent to participate from each school board of the proposed skills center must accompany the completed feasibility study.

A general advisory council must be established to serve as a program advisory council to the director of the skills center.

SB5790 removed the requirement that a minimum of 70% of skills center students must be enrolled on the skills center core campus. The legislation allows for branch campuses and satellite programs. A Branch Campus is a skills center facility or site which provides three or more programs at a location other than the core skills center campus. A Satellite Program is one provided by the skills center at a location other than the core skills center campus. These options were recommended in the 5717 Study. This is allowed in high density areas such as Seattle and they are encouraged so as to address high-demand fields.

## **SKILLS CENTER FUNDING-RELATED ISSUES:**

All students should have access to K-12 career and technical education (CTE) programs of study that help prepare them for careers, apprenticeships, and postsecondary education. Skills center programs are high cost preparatory programs that are difficult to offer in high schools.

Current Funding sources for **Skills Centers** include 60% of 1.0 FTE. Skills Centers also receive:

- Basic Education Act funding;
- Skills Center enhancement – 0.92 certificated instructional staff units and 0.08 certificated administrative units for each 16.67 full time equivalent vocational student; there is a 15% lid on indirect charges;
- Enhanced NERC (Non Employee Related Costs) - \$18,489 per certificated staff unit in 2007-08 and \$18,877 per CSU in 2008-09;
- Federal Carl Perkins;
- Equipment allocation (one time funds in 2006 Supplemental Budget \$125/FTE for skills centers – may receive it in 2007-09 budget);
- Summer school funding - \$ 2,385,000 per year for skills centers (funds are divided among existing ten skills centers to run summer school programs. The skills centers divide set allocations and plan programs based on funding allocation not student demand. As new skills centers are added the funding will need to increase. Summer school programs are full day programs – 90 hours. Incoming freshman through graduating seniors are served in the summer school programs. Many AP students attend the skills center summer school programs because they can't fit it into their regular school schedule. Ninth and tenth grade students use summer school to explore their options.
- Barrier Reduction Funds - \$500 per student – allows funding for retrieving and preventing dropouts. An excellent avenue to serve students in the late afternoon when most centers are closed. Makes better use of the facilities by running them longer than a normal school day. These funds can be used for reducing barriers that may be keeping students from attending, such as food, clothing, bus passes, child care, etc. Seattle Public Schools used to receive Barrier Reduction Funds, which were used to help students in Career Link; however, SPS has not received Barrier Reduction Funds for over five years.

The enhanced funding for skills centers allows high cost programs to be offered that are not available in the high school programs, such as: full-scale culinary program; veterinary; fire science; criminal justice; music and arts production; diesel; and maritime.

As an example, a program offered at a skills center may have expensive equipment and a small number of students pursuing the program, individual districts can rarely afford to offer the program.

SHB5790, as passed the legislature in the 2007 session, will increase the 1.0 FTE to 1.6 FTE. The skills center gets .6 and the district will now keep .6, thus eliminating the current disincentive for sending students to a skills center. The district will no longer serve a student for 3 periods and receive funding for only 2 periods; they will receive funding for the full 3 periods. The additional .4 is available to add time in the day to serve students. As an example, if a student is credit deficient, a zero hour could be added to their time at the skills center or a student who can't fit the skills center into their schedule, could attend in a late afternoon session and the skills center would receive funding for serving the student. Skills centers traditionally run two three-hour sessions; one in the morning and one in the afternoon. The additional funding will allow for an additional late afternoon session.

Under SSB5790, as passed, funding will be enhanced. The bill requires "OSPI to ensure that moneys generated by skills centers is returned to skills centers". This would include funds the districts receive for:

- Highly Capable
- Special Education
- I-728 Student Achievement
- Learning Assistance
- State Bilingual
- Title I Disadvantaged

### **Long Term Plan for Re-equipping and Maintaining a Skills Center:**

A Seattle/Shoreline Skills Center will bring together the business and labor leaders for each program area of the skills center. As a result of the business and labor involvement, the skills center will begin to produce students that show strong gains in the academic and technical skills needed in high demand careers. The coordination between the skills center, community colleges, business and labor will enhance the learning of students in preparing them to meet the demands of the workforce. Businesses that have the opportunity to take an active role in the programs at skills centers will donate equipment, supplies, and materials. Legislators have and will continue to fund equipment for skills centers. In addition, skills centers receive a higher NERC level to cover the additional costs for utilities, materials, supplies and upgrades.

The CTE General Advisory Council will be involved in a yearly planning process. Each program area council will make recommendations to the GAC based on the needs of the program.

## SEATTLE/SHORELINE SKILLS CENTER CAREER PATHWAYS

Programs will become a part of the Tech Prep program with Seattle and Shoreline Community Colleges. Upon enrolling in the skills center courses, students will begin their community college plan. Program advisory committees will become advisory councils made up of secondary and postsecondary business and labor members representing both the skills center and the community colleges programs.

### CAREER CLUSTERS

A preliminary assessment was conducted by the Steering committee, seeking program possibilities that would address:

- Economic / Community Need
- Student Interest
- Teacher Attraction / Talent

The career clusters are tied to the Prosperity Partnership high demand areas and based on high demand areas identified for the next fourteen years. The following program possibilities within each of these career clusters were enumerated:

#### **Science, Engineering & Industry**

Land Transportation  
Maritime  
Aviation  
Construction Trades  
Biofuel Technology (Energy Development)  
Nanotechnology  
Bio-Informatics  
DigiPen

#### **Business, Marketing & Info Tech**

Hospitality + Tourism  
Business Management + Administration  
Information Technology

- ✓ Certificate Programs
- ✓ Computer Maintenance & Repair
- ✓ Network Administration
- ✓ Setup
- ✓ Imaging

DigiPen  
International Finance

#### **Health & Human Services**

Health Care & Sports Medicine  
Athletic Training  
Geriatric Management + Day Care  
Career in Education  
Health Sciences

- ✓ Therapeutic
- ✓ Infomatics
- ✓ Support Services
- ✓ Diagnostics

(Culinary Arts)  
Family & Community Services

#### **Arts, Communications, & Media**

Film, Video, Radio, TV  
Commercial Graphic Design  
DigiPen  
Broadcast Engineering

#### **Environmental Science & Agriculture**

Green Technology  
Environmental Science / Forestry

## **LABOR MARKET INFORMATION CONCLUSION:**

The Seattle/Shoreline Skills Center would focus on:

- ✓ Career clusters and occupations within those clusters projected to be fast-growing and in high demand. Fast-growing occupations are identified as those which are projected to add a significant percentage of new workers. Those occupations projected to add additional workers in excess of 1.5% per year are considered to be fast growing.
  
- ✓ Career Clusters that are projected to contain the greatest number of occupational openings expected to grow at a rate greater than 1.5% per year for the next ten year period from 2005-2014. The number of the fast-growth occupations listed for each career cluster contains only those occupations requiring some to extensive educational preparation. Detailed analysis of projections provided by the Labor Market and Economic Analysis branch of the Washington State Employment Security Department has been made and is incorporated into the above list; the data is available on the Seattle Public Schools CTE website (<http://www.seattleschools.org/area/cte/skillcenterfeasibility.xml>); and a detailed summary will be included in the final feasibility study report.

To determine high demand occupations for career clusters within King and Snohomish counties which could be translated into appropriate educational programs for the proposed Seattle/Shoreline Skills Center, the following parameters are followed:

- Occupations that require some to extensive career preparation, a minimum of 11<sup>th</sup> and 12<sup>th</sup> grade training to those requiring extensive postsecondary education.
- Occupations projected to grow at a rate greater than 1.5% per year.
- Occupations with 100 or more projected annual new job openings.
- Occupations with wage rates equal to or greater than 200% of the state minimum wage rate (2 x \$7.93 – 2006 Washington minimum wage rate = \$15.86 per hour)

Please also see “King County Washington Labor Market Information”, to be found at <http://www.seattleschools.org/area/cte/skillcenterfeasibility.xml>, and attached at the end of this document.

## **SEATTLE/SHORELINE SKILLS CENTER DIRECTION**

The steering committee is supporting the concept of a skills center in the Seattle area. The skills center would serve all the students that could benefit from the specialized education and training provided by a skills center. Shoreline School District is working as a partner in the study and is part of the decision making process. The steering committee is moving towards selecting a site in the north part of Seattle that would allow Shoreline School District to send students to the center.

The steering committee also wants to serve all the students in the Seattle School District north, south, east and west. One of the requirements of the study is to have at least one core facility for the skills center. However, under the new legislation it is possible to have satellite sites throughout the district. The goal would be to have two permanent sites for the skills center over time; the core facility in the north and a branch campus in the south area of the district. According the SSB5790 passed in the 2007 legislative session, "Once a branch campus reaches sufficient enrollment to become self-sustaining, it may become a separate skill center or remain an extension of the founding skills center." In addition, it would be beneficial to Seattle to have satellite sites throughout the district so that every area of the district is covered.

The skills center will be offering summer school at the core facility, branch campus and, if necessary at satellite sites. The summer school programs will be 90 hours over a three week period giving the students a chance to earn a 0.5 credit. Summer school classes allow students to try out fields that they might be interested in pursuing as careers. All sites should offer dropout retrieval programs in late afternoon or evening programs.

The skills centers sites will be offering programs that are not currently being taught in the high schools. CTE programs in the high schools will continue to offer exploratory and some preparatory programs that will feed into the skills center program. Current skills centers sending district have strengthened their high school CTE programs to complement the skills center.

## **FINANCIAL OBLIGATIONS:**

***There is nothing in RCW, WAC or even OSPI policy regarding the financial obligations of the districts in supporting a skills center.***

**The Skills Center Study of 1998 contains the following recommendations related to financial obligations:**

- Member school districts will establish a capital facilities fund equal to 40% of the cost of the future renovations that require state matching funds.
- Member school districts will have a financial plan in place to contribute to the site, facility, equipment, and ongoing maintenance operation of the skills center. The administrative council will approve this financial plan.

**The *draft* start up criteria under development recommends:**

- Member school districts will contribute 10% of the cost of the initial capital funding necessary for construction of the skills center core campus or, construction/renovation necessary for branch campus facilities.
- Member school districts will have a financial plan in place to contribute to the site, facility, equipment, and ongoing maintenance operation of the skills center. The administrative council will approve this financial plan.

***Draft* skills center operational criteria under development recommends:**

- Member districts will have an ongoing financial plan in place to contribute to the site, facility, equipment, and ongoing maintenance operation of the skills center. The administrative council will annually review and approve the financial plan.

## **Legislative Intent:**

***Discussion when the feasibility studies were initiated during the 2006 session focused around 100% funding for construction. This, of course, can change during any subsequent budget cycle.***

The working presumption is that school districts assume responsibility for staffing a skills center. With the enhancements provided by the state, sustaining staff for reasonably well-enrolled programs is considered to be highly viable.

## **DROPOUT RETRIEVAL AND INTERVENTION SUPPORT**

Seattle/Shoreline Skills Center will work with the Workforce Development Council as a part of the WIA statewide dropout retrieval and intervention program. The goal of the program is to bring students back and help them find their passion for learning. Once the students are back in school, the goal is to get them involved in high demand careers, graduate from high school and attend community college or university. The New Market Skills Center in Tumwater has a program that Seattle/Shoreline Skills Center can build upon. New Market had over 250 dropouts attending the program in the 90's. Seattle/Shoreline would recruit from non-profit organizations that have identified dropouts, and as they did at New Market, students will be recruited throughout the community. The State provides Barrier Reduction Funds so Seattle/Shoreline Skills Center could take care of the students that come to them with barriers. When you begin to build trust with these students, they will stay in school.

The core component of the program is providing personal contact, guidance, and assistance to each student in the program. A support team will be put together to do a lot of hand holding and make one to one contacts with the students and often with their families. Another key to the program will be to have a liaison between the instructors and students to facilitate and communicate to help the student to have success. Other features of the program include a lower teaching ratio of 15/20 to 1. Students will receive customized curriculum through use of online programs that allows teachers to help fill the holes in their learning. Students can enroll weekly and have an orientation every Friday. Students may make up credits through competency based curriculum.

2SSB5790 as passed by the 2007 legislature says, "When possible, the programs shall be specifically targeted for credit retrieval, dropout prevention and intervention for at-risk students, and retrieval of dropouts. Skills centers that receive funding for these activities must participate in an evaluation that is designed to quantify results and identify best practices, collaborate with local community partners in providing a comprehensive program, and provide matching funds."

Seattle/Shoreline Skills Center does not have to invent the program, they can learn from New Market Skills Center.

## **BUILDING SQUARE FOOT AND PARKING REQUIREMENTS:**

The 5717 study didn't look specifically at facilities. However, there are architectural standards for determining the square footage of classrooms and labs based on the type of lab and number of students served. Also there is nothing in the Skills Center criteria regarding sq. ft. for Skills Centers except for the minimum of 150 FTE students. There are OSPI guidelines for facility funding, but they are somewhat flexible. The general rule of thumb is 130 sq. ft. per student for high schools which would be about the same for Skills Center since Skills Centers have large labs and high schools have gyms and auditoriums etc. The parking space issue is a local permit decision that the district or architect would deal with, but again the rule of thumb is about 5 parking spaces per classroom for high schools or a number determined to meet local needs. The City of Seattle may have a defined specification for the number and type of parking spaces needed for any type of business or organization. Usually the architect review of potential sites would have all that information. The buildings must meet Americans with Disabilities (ADA) requirements. The driver of all of this would be the projected number of students Seattle/Shoreline plans to serve and the type of programs offered.

The most the Capital Budget will fund for community and technical colleges is 70,000 sq ft. As an example, New Market Skills Center original building is 50,000 sq ft to serve 700 students (350 in morning classes and 350 in the afternoon). The addition of Life Science Building (20,000 sq ft) allows them to serve a total of 1100 students a day. Seattle should have a code for parking spaces that will need to be followed. Given the need to provide access throughout the city and Shoreline, equal or great consideration must be given to current transit (bus) options, and the light rail system that will be in operation in 2009.

***King County Washington  
Labor Market Information  
by  
Career Cluster***

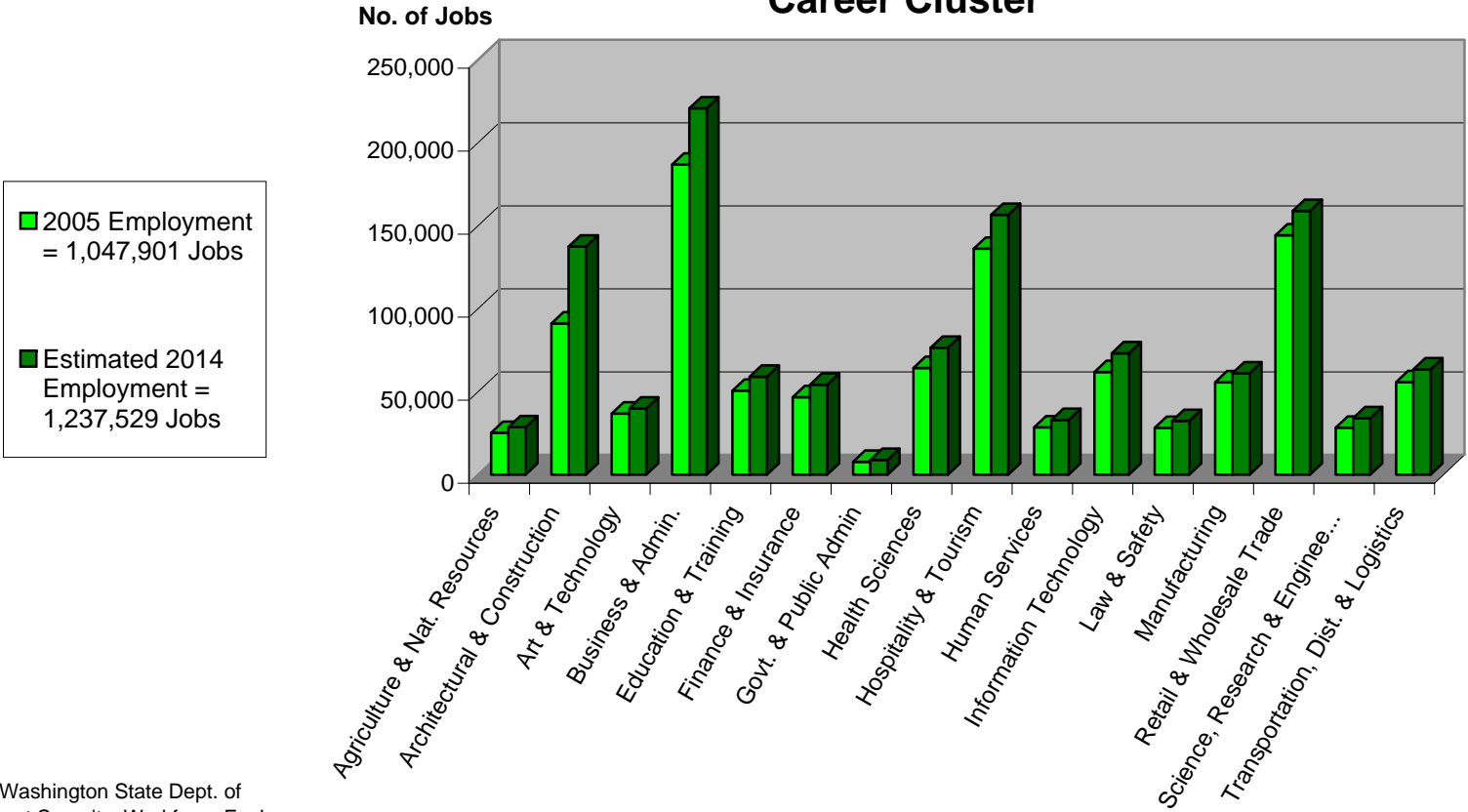
*Prepared for:*  
***Seattle Skills Center Feasibility Study  
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*by*  
***High Performance Standards, Inc  
Yelm, WA***

	<b>2005</b>	<b>Estimated</b>		
Agriculture & Nat. Resources	25,196	28,605	3,409	11.9%
Architectural & Construction	91,091	137,431	46,340	33.7%
Art & Technology	36,806	39,828	3,022	7.6%
Business & Admin.	186,779	220,661	33,882	15.4%
Education & Training	50,629	59,033	8,404	14.2%
Finance & Insurance	46,713	54,210	7,497	13.8%
Govt. & Public Admin	7,743	8,884	1,141	12.8%
Health Sciences	64,300	76,478	12,178	15.9%
Hospitality & Tourism	136,126	156,490	20,364	13.0%
Human Services	28,505	32,983	4,478	13.6%
Information Technology	61,857	73,146	11,289	15.4%
Law & Safety	28,231	32,350	4,119	12.7%
Manufacturing	55,621	61,038	5,417	8.9%
Retail & Wholesale Trade	144,165	158,870	14,705	9.3%
Science, Research & Engineering	28,336	33,989	5,653	16.6%
Transportation, Dist. & Logistics	55,729	63,447	7,718	12.2%
<b>Total</b>	<b>1,047,827</b>	<b>1,237,445</b>	<b>189,618</b>	<b>15.3%</b>

	<b>King County</b>	<b>Snohomish County</b>	
Agriculture & Nat. Resources	1.2%	1.1%	1.2%
Architectural & Construction	3.4%	1.4%	2.4%
Art & Technology	0.8%	0.8%	0.8%
Business & Admin.	1.5%	1.5%	1.5%
Education & Training	1.4%	1.4%	1.4%
Finance & Insurance	1.4%	1.3%	1.3%
Govt. & Public Admin	1.3%	1.3%	1.3%
Health Sciences	1.6%	1.6%	1.6%
Hospitality & Tourism	1.3%	1.2%	1.3%
Human Services	1.4%	1.2%	1.3%
Information Technology	1.5%	1.6%	1.6%
Law & Safety	1.3%	1.3%	1.3%
Manufacturing	0.9%	0.8%	0.9%
Retail & Wholesale Trade	0.9%	1.0%	1.0%
Science, Research & Engineering	1.7%	1.7%	1.7%
Transportation, Dist. & Logistics	1.2%	1.3%	1.2%

# King County 2005-2014 Employment Growth by Career Cluster



Source: Washington State Dept. of Employment Security; Workforce Explorer, Nov. 2006

**KING COUNTY LABOR MARKET INFORMATION**  
by  
**Occupational Career Cluster**

**AGRICULTURE AND NATURAL RESOURCES:** The production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture and other plant and animal products/resources.

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Landscaping and Groundskeeping Workers <i>(In Demand)</i>	Little or No	7,584	343	\$12.72	20.1
Graders and Sorters Agricultural Products	Little or No	363	12	\$8.84	9.3
Farmworkers and Laborers Crop Nursery and Greenhouse	Little or No	230	12	\$12.70	24.5
Farmworkers Farm and Ranch Animals	Little or No	99	4	\$12.46	5.4
Nonfarm Animal Caretakers	Some	759	39	\$9.14	19.1
Pesticide Handlers Sprayers and Applicators Vegetation	Some	350	17	\$15.83	12
Pest Control Workers	Some	221	9	\$16.64	36.2
Sales Representatives Wholesale/Manufacturing Technical/Scientific <i>(In Demand)</i>	Medium	4,755	311	\$32.50	19.3
Supervisors/Managers of Landscaping Lawn Service/Groundskeepers <i>(In Demand)</i>	Medium	1,138	39	\$21.67	27.7
Forest and Conservation Technicians	Medium	527	16	\$20.96	3.1
Forest and Conservation Workers	Medium	273	12	\$8.24	11
Water and Liquid Waste Treatment Plant and System Operators	Medium	176	9	\$24.52	13.8
Supervisors/Managers of Farming Fishing and Forestry Workers	Medium	161	5	\$21.23	2
Earth Drillers Except Oil and Gas	Medium	109	5	\$31.38	4.1
Environmental Engineering Technicians	Medium	80	4	\$21.50	17.2
Supervisors/Managers of Construction Trades and Extraction Workers <i>(In Demand)</i>	Medium	5,710	304	\$32.72	27.4
Landscape Architects	Medium	377	17	\$24.74	8.1
Conservation Scientists	Medium	313	9	\$33.77	22
Purchasing Agents and Buyers Farm Products	Medium	230	10	\$22.69	4.3
Foresters	Considerable	122	5	\$23.29	6.4
Mining and Geological Engineers Including Mining Safety Engineers	Considerable	80	6	\$29.49	7.7
Food Scientists and Technologists	Considerable	80	2	\$30.53	5.3
Power Plant Operators	Considerable	72	6	\$43.25	4.5
Agricultural Inspectors	Considerable	55	2	\$19.43	13.1
Environmental Engineers <i>(In Demand)</i>	Extensive	761	43	\$35.63	22
Zoologists and Wildlife Biologists <i>(In Demand)</i>	Extensive	571	36	\$28.34	18.3
<b>Total</b>		<b>25,196</b>	<b>1,277</b>		
<b>Estimated 2014 Employment</b>		<b>28,605</b>			
<b>2004-2014 Increase = 13.53%</b>					

**ARCHITECTURAL and CONSTRUCTION:** Careers in designing, planning, managing, building and maintaining the built environment.

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Helpers--Carpenters <i>(In Demand)</i>	Little or No	2,054	163	\$12.73	25.3
Carpet Installers <i>(In Demand)</i>	Little or No	520	27	\$25.14	22.6
Helpers--Painters Paperhangers Plasterers and Stucco Masons <i>(In Demand)</i>	Little or No	220	18	\$13.05	28
Meter Readers Utilities	Little or No	199	7	\$19.81	8.4
Helpers--Brickmasons Blockmasons Stonemasons and Tile and Marble Setters	Little or No	190	15	\$18.10	28.1
Construction Laborers <i>(In Demand)</i>	Some	7,048	334	\$15.40	19
Drywall and Ceiling Tile Installers <i>(In Demand)</i>	Some	2,566	159	\$29.07	26.3
Tapers	Some	1,247	77	\$25.32	27
Helpers--Installation Maintenance and Repair Workers	Some	826	43	\$12.87	14.3
Tile and Marble Setters <i>(In Demand)</i>	Some	663	37	\$25.14	24.4
Brickmasons and Blockmasons	Some	649	31	\$27.25	26
Hazardous Materials Removal Workers <i>(In Demand)</i>	Some	637	31	\$24.36	16.1
Pipelayers	Some	632	29	\$23.06	12.2
Highway Maintenance Workers	Some	428	10	\$21.31	11
Helpers--Electricians	Some	376	27	\$12.89	19.4
Crane and Tower Operators	Some	342	15	\$25.75	15
Excavating and Loading Machine and Dragline Operators	Some	230	9	\$24.11	13.2
Septic Tank Servicers and Sewer Pipe Cleaners	Some	193	11	\$24.75	12.1
Helpers--Pipelayers Plumbers Pipefitters and Steamfitters	Some	187	13	\$13.73	17.9
Fence Erectors	Some	171	7	\$21.00	19.3
Pile-Driver Operators	Some	146	6	\$31.41	9.2
Paving Surfacing and Tamping Equipment Operators	Some	122	6	\$20.97	19.4
Maintenance and Repair Workers General	Medium	8,112	324	\$18.78	13.9
Supervisors/Managers of Construction Trades and Extraction Workers	Medium	6,710	304	\$32.72	17.6
Electricians <i>(In Demand)</i>	Medium	4,356	206	\$26.50	17
Construction Managers <i>(In Demand)</i>	Medium	4,261	199	\$49.47	16.1
Plumbers Pipefitters and Steamfitters <i>(In Demand)</i>	Medium	4,094	223	\$28.97	16.3
Operating Engineers and Other Construction Equipment Operators <i>(In Demand)</i>	Medium	2,597	138	\$27.28	12
Roofers	Medium	1,565	89	\$22.47	12.3
Telecommunications Line Installers and Repairers <i>(In Demand)</i>	Medium	1,514	76	\$20.53	17.2
Telecommunications Equipment Installers and Repairers Except Line Installers	Medium	1,392	36	\$24.82	4
Heating Air Conditioning and Refrigeration Mechanics and Installers <i>(In Demand)</i>	Medium	1,261	45	\$24.95	17.3
Architectural and Civil Drafters <i>(In Demand)</i>	Medium	1,218	86	\$23.95	29.1
Construction and Building Inspectors	Medium	1,015	43	\$28.81	17
Cement Masons and Concrete Finishers <i>(In Demand)</i>	Medium	939	46	\$16.79	23.3

<b>ARCHITECTURAL and CONSTRUCTION (Contd.)</b>		<b>2005</b>	<b>Projected</b>	<b>Median 2005</b>	<b>Projected</b>
	<b>Preparation</b>	<b>Employment</b>	<b>Annual</b>	<b>Wage</b>	<b>Growth %</b>
			<b>Openings</b>		<b>2004-2014</b>
Glaziers <i>(In Demand)</i>	Medium	912	42	\$22.67	22.1
Structural Iron and Steel Workers	Medium	894	40	\$28.27	18.4
Cabinetmakers and Bench Carpenters	Medium	744	19	\$15.15	11.2
Mechanical Drafters (In Demand)	Medium	739	48	\$23.14	21.2
Insulation Workers Floor Ceiling and Wall <i>(In Demand)</i>	Medium	656	45	\$29.94	23
Electrical and Electronics Drafters <i>(In Demand)</i>	Medium	509	30	\$22.78	24.1
Surveyors <i>(In Demand)</i>	Medium	398	31	\$28.38	27.3
Control and Valve Installers and Repairers Except Mechanical Door	Medium	199	7	\$34.22	9.4
Riggers	Medium	152	2	\$19.55	5.1
Floor Layers Except Carpet Wood and Hard Tiles	Medium	54	2	\$19.62	19
Carpenters <i>(In Demand)</i>	Medium	12,902	659	\$24.87	19.3
Supervisors/Managers of Construction Trades and Extraction Workers <i>(In Demand)</i>	Medium	5,710	304	\$32.72	17.2
Painters Construction and Maintenance	Medium	4,518	287	\$19.18	22.4
Cost Estimators	Medium	2,195	124	\$28.32	2
Elevator Installers and Repairers	Medium	656	39	\$36.65	2.2
Electrical and Electronics Drafters <i>(In Demand)</i>	Considerable	509	30	\$22.78	24
Electrical Power-Line Installers and Repairers	Considerable	444	23	\$31.32	6.7
Plasterers and Stucco Masons	Considerable	220	12	\$30.64	27.1
Architects Except Landscape and Naval <i>(In Demand)</i>	Extensive	2,462	135	\$32.27	33.5
Electrical and Electronics Repairers Powerhouse Substation and Relay	Extensive	172	5	\$32.45	6.1
	<b>Total</b>	<b>91,091</b>	<b>4,634</b>		
		<b>Estimated 2014 Employment</b>	<b>137,431</b>		
			<b>2004-2014 Increase = 47.7%</b>		

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**ART, A/V TECHNOLOGY and COMMUNICATION: Designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Laborers and Freight Stock and Material Movers Hand	Little or No	12,596	936	\$10.90	19.4
Ushers Lobby Attendants and Ticket Takers	Little or No	1,210	237	\$9.56	17
Printing Machine Operators	Some	1,214	25	\$16.67	-5.2
Prepress Technicians and Workers	Some	624	12	\$19.74	-35.1
Bindery Workers	Some	402	10	\$11.51	-9
Photographic Process Workers	Some	102	6	\$10.78	1.1
Writers and Authors <i>(In Demand)</i>	Some	1,381	57	\$25.26	28.2
Photographers <i>(In Demand)</i>	Some	1,094	50	\$21.28	14.5
Desktop Publishers	Some	396	19	\$19.67	-5.1
Audio and Video Equipment Technicians	Some	408	17	\$16.80	13.2
Broadcast Technicians	Medium	387	17	\$18.51	6
Camera Operators Television Video and Motion Picture	Medium	384	16	\$22.90	6.1
Prepress Technicians and Workers	Medium	624	12	\$19.74	0
Actors	Medium	772	11	\$13.95	1.2
Film and Video Editors	Medium	243	8	\$16.14	4
Sound Engineering Technicians	Medium	148	7	\$18.01	21.1
Radio and Television Announcers	Medium	115	6	\$21.57	3.2
Public Address System and Other Announcers	Medium	158	6	\$12.21	9.1
Museum Technicians and Conservators	Medium	125	4	\$15.51	13
Multi-Media Artists and Animators <i>(In Demand)</i>	Medium	2,240	184	\$26.99	31.2
Graphic Designers <i>(In Demand)</i>	Medium	2,090	137	\$23.32	19
Technical Writers <i>(In Demand)</i>	Medium	2,048	137	\$34.58	33.2
Editors	Medium	1,335	81	\$32.10	19.8
Art Directors	Medium	1,065	62	\$37.19	23
Fine Artists Including Painters Sculptors and Illustrators	Medium	696	57	\$22.54	15.1
Commercial and Industrial Designers	Medium	500	15	\$29.06	12.3
Reporters and Correspondents	Considerable	473	13	\$28.93	6.1
Prepress Technicians and Workers	Considerable	624	12	\$19.74	0
Proofreaders and Copy Markers	Considerable	95	5	\$11.67	16.1
Curators	Considerable	90	4	\$25.78	4
Set and Exhibit Designers	Considerable	105	2	\$20.48	0
Costume Attendants	Considerable	54	2	\$16.30	-12.2
Bookbinders	Considerable	87	2	\$23.82	14.4
Producers and Directors	Extensive	1,150	43	\$23.07	-5
Musicians and Singers	Extensive	1,116	19	\$23.24	0

**ART, A/V TECHNOLOGY and COMMUNICATION: Designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Choreographers	Extensive	114	10	\$22.54	11
Music Directors and Composers	Extensive	246	8	\$29.36	1.1
Job Printers	Extensive	217	5	\$20.95	3.1
Archivists	Extensive	78	3	\$21.54	17.2
<b>Total</b>		<b>36,806</b>	<b>2257</b>		

**Estimated 2014 Employment 39,828**  
**2004-2014 Increase = 8.2%**

Source: Washington St. Dept. of Employment Security  
 Workforce Explorer, November 2005

**BUSINESS and ADMINISTRATION: Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Mail Clerks and Mail Machine Operators Except Postal Service <i>(In Demand)</i>	Little or No	1,795	93	\$13.56	21.1
Office Machine Operators Except Computer	Little or No	691	32	\$12.23	25.6
Office Clerks General <i>(In Demand)</i>	Some	20,094	1,037	\$13.61	18
Customer Service Representatives <i>(In Demand)</i>	Some	20,010	724	\$16.19	17.6
Stock Clerks and Order Fillers <i>(In Demand)</i>	Some	10,533	851	\$12.05	12.4
Secretaries Except Legal Medical and Executive <i>(In Demand)</i>	Some	8,587	344	\$16.68	16.6
Receptionists and Information Clerks <i>(In Demand)</i>	Some	7,739	411	\$12.52	19.9
Shipping Receiving and Traffic Clerks <i>(In Demand)</i>	Some	6,727	276	\$14.26	11.2
Medical Secretaries <i>(In Demand)</i>	Some	4,945	180	\$15.66	20.7
Order Clerks <i>(In Demand)</i>	Some	2,577	93	\$15.65	11.7
Data Entry Keyers <i>(In Demand)</i>	Some	2,127	104	\$12.84	26.7
Switchboard Operators Including Answering Service <i>(In Demand)</i>	Some	1,456	66	\$12.71	23
Tax Preparers	Some	1,363	46	\$20.28	15.1
Word Processors and Typists <i>(In Demand)</i>	Some	1,117	54	\$17.24	21.7
Couriers and Messengers	Some	1,002	41	\$11.38	13.4
Statistical Assistants	Some	256	10	\$17.72	13.6
Correspondence Clerks	Some	54	3	\$17.79	13
Bookkeeping Accounting and Auditing Clerks <i>(In Demand)</i>	Medium	14,256	616	\$16.65	15.1
Supervisors/Managers of Office and Administrative Support Workers <i>(In Demand)</i>	Medium	10,628	435	\$25.13	15.6
Executive Secretaries and Administrative Assistants <i>(In Demand)</i>	Medium	8,705	427	\$20.75	18.1
Billing and Posting Clerks and Machine Operators <i>(In Demand)</i>	Medium	5,819	217	\$16.29	17.9
Interviewers Except Eligibility and Loan <i>(In Demand)</i>	Medium	3,218	206	\$12.36	27
Legal Secretaries <i>(In Demand)</i>	Medium	2,547	96	\$23.30	14.6
Payroll and Timekeeping Clerks <i>(In Demand)</i>	Medium	1,745	80	\$19.28	16.6
File Clerks	Medium	1,683	87	\$13.35	19.2
Human Resources Assistants Except Payroll and Timekeeping <i>(In Demand)</i>	Medium	1,648	69	\$18.20	22.3
Supervisors/Managers of Housekeeping and Janitorial Workers <i>(In Demand)</i>	Medium	1,091	48	\$17.43	11.7
Procurement Clerks <i>(In Demand)</i>	Medium	611	29	\$16.81	22.2
Interpreters and Translators	Medium	522	17	\$21.48	14.3
Compensation and Benefits Managers	Medium	265	10	\$42.64	14.8
Agents and Business Managers of Artists Performers and Athletes	Medium	79	2	\$31.29	14.3
Accountants and Auditors <i>(In Demand)</i>	Considerable	12,431	542	\$27.25	15.9
General and Operations Managers <i>(In Demand)</i>	Considerable	7,130	296	\$58.44	15.2
Management Analysts <i>(In Demand)</i>	Considerable	7,654	398	\$35.19	20.5
Public Relations Specialists <i>(In Demand)</i>	Considerable	3,261	129	\$25.45	18.4

<b>BUSINESS and ADMINISTRATION (Contd.)</b>	<b>Preparation</b>	<b>2005 Employment</b>	<b>Projected Annual Openings</b>	<b>Median 2005 Wage</b>	<b>Projected Growth % 2004-2014</b>
Employment Recruitment and Placement Specialists <i>(In Demand)</i>	Considerable	2,078	106	\$25.26	28.5
Training and Development Specialists <i>(In Demand)</i>	Considerable	1,725	64	\$26.86	14.6
Administrative Services Managers	Considerable	1,766	67	\$38.99	15.9
Budget Analysts <i>(In Demand)</i>	Considerable	1,756	94	\$31.21	16.2
Compensation Benefits and Job Analysis Specialists	Considerable	1,145	35	\$26.77	14.7
Statisticians <i>(In Demand)</i>	Considerable	750	38	\$27.68	18.6
Meeting and Convention Planners	Considerable	635	28	\$21.64	20.7
Public Relations Managers	Considerable	540	23	\$46.59	18.8
Operations Research Analysts <i>(In Demand)</i>	Considerable	511	29	\$33.36	20.3
Training and Development Managers	Considerable	217	7	\$42.88	17.8
Chief Executives	Extensive	1,290	58	\$0.00	15
<b>Total</b>		<b>186,779</b>	<b>8,618</b>		

**Estimated 2014 Employment 220,661**  
**2004-2014 Increase = 18.1%**

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**EDUCATION and TRAINING: Planning, managing and providing education and training services and related learning support services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Teacher Assistants ( <i>In Demand</i> )	Medium	7,507	306	\$26,628 yr	17
Fitness Trainers and Aerobics Instructors ( <i>In Demand</i> )	Medium	2,265	105	\$16.25	16.3
Preschool Teachers Except Special Education ( <i>In Demand</i> )	Medium	3,129	94	\$11.92	19.8
Library Assistants Clerical	Medium	1,024	62	\$11.35	13.9
Library Technicians	Medium	934	54	\$16.87	13.6
Elementary School Teachers Except Special Education	Considerable	7,134	271	\$43,512 yr	16.7
Secondary School Teachers Except Special and Vocational Education ( <i>In Demand</i> )	Considerable	3,937	177	\$45,167 yr	16.7
Middle School Teachers Except Special and Vocational Education ( <i>In Demand</i> )	Considerable	3,694	140	\$44,295 yr	16.7
Vocational Education Teachers Postsecondary ( <i>In Demand</i> )	Considerable	2,047	82	\$21.73	16.9
Self-Enrichment Education Teachers	Considerable	2,674	78	\$17.71	15.2
Adult Literacy Remedial Education and GED Teachers and Instructors	Considerable	1,845	53	\$21.01	15.4
Special Education Teachers Preschool Kindergarten and Elementary School	Considerable	1,043	41	\$43,346 yr	17
Vocational Education Teachers Secondary School	Considerable	637	29	\$46,056 yr	16.8
Kindergarten Teachers Except Special Education	Considerable	849	24	\$41,319 yr	16.7
Special Education Teachers Secondary School	Considerable	415	16	\$42,969 yr	16.7
Special Education Teachers Middle School	Considerable	384	15	\$42,642 yr	16.7
Education Administrators Preschool and Child Care Center/Program	Considerable	204	9	\$24.78	19.2
Librarians	Extensive	1,027	58	\$27.03	15.1
Educational Vocational and School Counselors	Extensive	1,163	53	\$22.72	16.7
Education Administrators Postsecondary	Extensive	1,088	48	\$36.43	16.5
Education Administrators Elementary and Secondary School ( <i>In Demand</i> )	Extensive	983	40	\$84,712 yr	16.7
Art Drama and Music Teachers Postsecondary	Extensive	795	32	\$49,836 yr	16.7
English Language and Literature Teachers Postsecondary	Extensive	622	25	\$51,650 yr	16.7
Nursing Instructors and Teachers Postsecondary	Extensive	603	24	\$60,586 yr	16.8
Business Teachers Postsecondary	Extensive	607	24	\$65,857 yr	16.7
Instructional Coordinators	Extensive	685	23	\$25.06	17
Health Educators	Extensive	518	22	\$24.20	16.7
Computer Science Teachers Postsecondary	Extensive	414	17	\$51,208 yr	16.7
Mathematical Science Teachers Postsecondary	Extensive	401	16	61,681	16,7
Education Teachers Postsecondary	Extensive	324	13	\$57,480 yr	16.7
Foreign Language and Literature Teachers Postsecondary	Extensive	294	12	\$52,797 yr	16.8
Psychology Teachers Postsecondary	Extensive	272	11	\$58,354 yr	16.7
Communications Teachers Postsecondary	Extensive	215	9	\$49,825 yr	16.8
Philosophy and Religion Teachers Postsecondary	Extensive	221	9	\$56,905 yr	16.8
Chemistry Teachers Postsecondary	Extensive	202	8	\$60,127 yr	16.7

<b>EDUCATION and TRAINING (Contd.)</b>		<b>2005</b>	<b>Projected</b>	<b>Median 2005</b>	<b>Projected</b>
	<b>Preparation</b>	<b>Employment</b>	<b>Annual</b>	<b>Wage</b>	<b>Growth %</b>
			<b>Openings</b>		<b>2004-2014</b>
History Teachers Postsecondary	Extensive	169	7	\$62,678 yr	16.8
Sociology Teachers Postsecondary	Extensive	141	6	\$59,301 yr	16.5
Economics Teachers Postsecondary	Extensive	93	4	\$67,075 yr	16.7
Recreation and Fitness Studies Teachers Postsecondary	Extensive	70	3	\$40,389 yr	16.7
	<b>Total</b>	<b>50,629</b>	<b>2,020</b>		

**Estimated 2014 Employment    59,033**  
**2004-2014 Increase = 16.6%**

Source: Washington St. Dept. of Employment Security  
 Workforce Explorer, November 2005

**FINANCE and INSURANCE: Planning services for financial and investment planning, banking, insurance and business financial management.**

		2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Credit Authorizers Checkers and Clerks	Little or No	389	12	\$17.59	13.5
Tellers <i>(In Demand)</i>	Some	4,706	327	\$10.95	10.6
Loan Interviewers and Clerks	Some	2,741	66	\$17.64	11.9
Insurance Claims and Policy Processing Clerks	Some	2,271	53	\$16.30	9.5
New Accounts Clerks	Some	1,065	40	\$15.46	9.4
Brokerage Clerks	Some	356	9	\$18.43	9.9
Billing and Posting Clerks and Machine Operators <i>(In Demand)</i>	Medium	4,819	217	\$16.29	17.8
Loan Officers	Medium	2,815	98	\$26.11	12
Securities Commodities and Financial Services Sales Agents <i>(In Demand)</i>	Medium	2,576	80	\$28.99	10
Bill and Account Collectors (In Demand)	Medium	3,482	133	\$15.93	25
Computer Automated Teller and Office Machine Repairers	Medium	2,018	62	\$17.52	11.3
Insurance Sales Agents	Medium	2,219	68	\$29.71	8.6
Claims Adjusters Examiners and Investigators	Medium	2,189	41	\$26.13	8.5
Insurance Underwriters	Medium	1,256	31	\$26.40	84
Personal Financial Advisors	Medium	1,171	29	\$32.45	7.2
Tax Examiners Collectors and Revenue Agents	Medium	497	11	\$25.86	6.6
Title Examiners Abstractors and Searchers	Medium	349	8	\$19.79	11.5
Market Research Analysts <i>(In Demand)</i>	Considerable	5,384	384	\$39.72	27.4
Financial Managers <i>(In Demand)</i>	Considerable	4,281	167	\$46.86	13.4
Credit Analysts	Considerable	847	22	\$26.32	11.2
Financial Examiners	Considerable	167	4	\$37.81	7.5
Financial Analysts	Extensive	986	29	\$34.21	12
Economists	Extensive	129	6	\$35.39	14.3
<b>Total</b>		<b>46,713</b>	<b>1,897</b>		

**Estimated 2014 Employment 54,210**  
**2004-2014 Increase = 16.1%**

Source: Washington St. Dept. of Employment Security  
 Workforce Explorer, November 2005

**GOVERNMENT and PUBLIC ADMINISTRATION: Executing governmental functions to include Governance, National Security, Foreign Service, Planning, Revenue and Taxation, Regulation and Management and Administration at the local, state and federal levels.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Court Municipal and License Clerks	Medium	2,086	80	\$19.55	12
Compliance Officers Except Agriculture Construction Health and Safety	Medium	2,051	62	\$28.48	9.1
Social Science Research Assistants	Medium	521	24	\$15.23	18
Urban and Regional Planners	Considerable	1,179	62	\$33.50	15
Social and Community Service Managers	Considerable	416	15	\$41.20	19.3
Chief Executives	Extensive	1,490	58	\$0.00	15
<b>Total</b>		<b>7,743</b>	<b>301</b>		
<b>Estimated 2014 Employment</b>		<b>8,884</b>			
		<b>2004-2014 Increase = 14.7%</b>			

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**HEALTH SCIENCE: Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Nursing Aides Orderlies and Attendants <i>(In Demand)</i>	Some	6,251	223	\$12.85	17.3
Dental Assistants <i>(In Demand)</i>	Some	2,749	174	\$19.33	21
Home Health Aides <i>(In Demand)</i>	Some	2,030	65	\$10.40	19.7
Pharmacy Technicians	Some	1,714	46	\$16.25	11.5
Medical and Clinical Laboratory Technicians <i>(In Demand)</i>	Some	1,051	53	\$16.56	20
Medical Equipment Preparers <i>(In Demand)</i>	Some	826	35	\$14.21	20.2
Veterinary Assistants and Laboratory Animal Caretakers	Some	471	29	\$10.75	34.2
Pharmacy Aides	Some	446	15	\$11.10	10.1
Physical Therapist Aides	Some	381	13	\$13.77	12.5
Occupational Therapist Aides <i>(In Demand)</i>	Some	99	3	\$12.86	18.9
Psychiatric Aides	Some	44	3	\$16.15	20.7
Registered Nurses <i>(In Demand)</i>	Medium	18,258	763	\$33.58	20.7
Medical Assistants <i>(In Demand)</i>	Medium	4,935	165	\$16.18	18.9
Licensed Practical and Licensed Vocational Nurses <i>(In Demand)</i>	Medium	2,533	107	\$20.91	20.2
Compliance Officers Except Agriculture Construction Health and Safety <i>(In Demand)</i>	Medium	2,051	62	\$28.48	9.1
Dental Hygienists	Medium	1,479	54	\$40.34	21.3
Medical Records and Health Information Technicians <i>(In Demand)</i>	Medium	1,961	67	\$15.50	17.5
Radiologic Technologists and Technicians	Medium	1,140	43	\$28.70	19.7
Respiratory Therapists <i>(In Demand)</i>	Medium	772	42	\$26.36	20
Surgical Technologists	Medium	564	18	\$21.04	19.4
Psychiatric Technicians	Medium	394	12	\$16.03	13.4
Physical Therapist Assistants	Medium	373	13	\$19.77	22.5
Diagnostic Medical Sonographers	Medium	295	11	\$33.02	19.4
Cardiovascular Technologists and Technicians	Medium	265	9	\$28.25	17.7
Opticians Dispensing	Medium	257	9	\$18.98	18.6
Veterinary Technologists and Technicians	Medium	241	14	\$15.95	34.7
Radiation Therapists	Medium	161	6	\$39.50	18.2
Nuclear Medicine Technologists	Medium	108	4	\$34.07	19
Dietetic Technicians	Medium	94	3	\$16.80	17.9
Occupational Therapist Assistants	Medium	83	3	\$19.74	20.8
Orthotists and Prosthetists	Medium	80	3	\$24.52	12.7
Respiratory Therapy Technicians	Medium	59	2	\$16.94	18.1
Medical and Clinical Laboratory Technologists <i>(In Demand)</i>	Considerable	1,091	60	\$25.29	18.1
Occupational Therapists <i>(In Demand)</i>	Considerable	744	23	\$27.91	18.8
Physician Assistants <i>(In Demand)</i>	Considerable	601	21	\$40.48	19.1

HEALTH SCIENCE (Contd.)	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Recreational Therapists	Considerable	102	4	\$22.98	15.2
Audiologists	Considerable	91	4	\$31.05	16.5
Podiatrists	Considerable	61	3	\$65.06	21.9
Pharmacists ( <i>In Demand</i> )	Extensive	1,848	61	\$42.55	12.4
Physical Therapists	Extensive	1,174	37	\$31.17	22.3
Medical and Health Services Managers	Extensive	1,321	45	\$48.85	17
Dentists General	Extensive	884	30	\$55.12	18.7
Surgeons ( <i>In Demand</i> )	Extensive	674	20	\$0.00	18.8
Speech-Language Pathologists ( <i>In Demand</i> )	Extensive	648	28	\$26.95	18.9
Occupational Health and Safety Specialists	Extensive	603	28	\$30.50	14.8
Psychiatrists	Extensive	587	18	\$63.88	16.6
Veterinarians	Extensive	564	36	\$39.27	30
Dietitians and Nutritionists	Extensive	452	20	\$25.49	18
Anesthesiologists	Extensive	265	8	\$0.00	18.8
Chiropractors	Extensive	242	8	\$40.51	23.1
Optometrists	Extensive	183	8	\$47.19	21
<b>Total</b>		<b>64,300</b>	<b>2,531</b>		<b>965.9</b>

**Estimated 2014 Employment 76,478**  
**2004-2014 Increase = 18.9%**

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**HOSPITALITY and TOURISM: Management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Waiters and Waitresses <i>(In Demand)</i>	Little or No	19,763	1,699	\$9	15.3
Combined Food Preparation and Serving Workers Including Fast Food <i>(In Demand)</i>	Little or No	19,241	1,449	\$9	15.5
Janitors and Cleaners Except Maids and Housekeeping Cleaners	Little or No	12,945	596	\$12	1.4
Maids and Housekeeping Cleaners	Little or No	11,584	369	\$10	15.4
Counter Attendants Cafeteria Food Concession and Coffee Shop <i>(In Demand)</i>	Little or No	6,249	764	\$8	14.6
Food Preparation Workers <i>(In Demand)</i>	Little or No	5,239	323	\$11	15.1
Dishwashers <i>(In Demand)</i>	Little or No	4,995	348	\$9	13.6
Dining Room and Cafeteria Attendants and Bartender Helpers <i>(In Demand)</i>	Little or No	3,946	266	\$8	14.9
Hosts and Hostesses Restaurant Lounge and Coffee Shop <i>(In Demand)</i>	Little or No	3,324	203	\$9	15.2
Cooks Fast Food (In Demand)	Little or No	2,029	116	\$8	16.8
Amusement and Recreation Attendants <i>(In Demand)</i>	Little or No	1,795	111	\$8	18.3
Meat Poultry and Fish Cutters and Trimmers	Little or No	1,330	44	\$15	14.5
Food Servers Nonrestaurant	Little or No	839	54	\$10	12.1
Cooks Short Order <i>(In Demand)</i>	Little or No	752	44	\$10	11
Baggage Porters and Bellhops	Little or No	638	33	\$11	16
Locker Room Coatroom and Dressing Room Attendants	Little or No	164	10	\$10	15.1
Cooks Restaurant <i>(In Demand)</i>	Medium	8,533	534	\$12	14.8
Supervisors/Managers of Food Preparation and Serving Workers <i>(In Demand)</i>	Medium	5,323	241	\$18	16.6
Bartenders	Medium	4,213	255	\$10	14.9
Reservation and Transportation Ticket Agents and Travel Clerks	Medium	2,917	110	\$15	5.1
Cooks Institution and Cafeteria	Medium	1,989	120	\$13	11.9
Gaming Dealers <i>(In Demand)</i>	Medium	1,493	121	\$9	11.9
Hotel Motel and Resort Desk Clerks	Medium	1,003	72	\$10	5.1
Food Batchmakers	Medium	967	31	\$11	20.8
Gaming Supervisors	Medium	528	22	\$19	15.5
Umpires Referees and Other Sports Officials <i>(In Demand)</i>	Medium	486	19	\$42,465 yr	18.5
Food Cooking Machine Operators and Tenders	Medium	283	6	\$10	6
Concierges	Medium	246	12	\$13	12
Gaming and Sports Book Writers and Runners	Medium	203	13	\$9	21.4
Gaming Cage Workers	Medium	114	10	\$11	21.4
Travel Guides	Medium	111	6	\$17	30
Travel Agents (In Demand)	Considerable	2,540	127	\$18	28.2
Supervisors/Managers of Personal Service Workers <i>(In Demand)</i>	Considerable	1,459	84	\$20	16.1
Bakers	Considerable	1,417	47	\$12	9
Food Service Managers	Considerable	1,155	40	\$38	13

<b>HOSPITALITY and TOURISM (Contd.)</b>	<b>Preparation</b>	<b>2005 Employment</b>	<b>Projected Annual Openings</b>	<b>Median 2005 Wage</b>	<b>Projected Growth % 2004-2014</b>
Supervisors/Managers of Housekeeping and Janitorial Workers <i>(In Demand)</i>	Considerable	1,091	48	\$17	22.3
Tour Guides and Escorts	Considerable	264	12	\$12	13.9
Athletes and Sports Competitors	Considerable	209	8	\$0	15
Lodging Managers	Considerable	191	7	\$39	10.9
Recreation Workers <i>(In Demand)</i>	Considerable	2,357	87	\$11	12.8
Chefs and Head Cooks	Considerable	853	50	\$20	14.7
Coaches and Scouts <i>(In Demand)</i>	Extensive	1,246	58	\$30,367 yr	15.5
Athletic Trainers	Extensive	102	4	\$33,879 yr	21.6
<b>Total</b>		<b>136,126</b>	<b>8,573</b>		

**Estimated 2014 Employment 156,490**  
**2004-2014 Increase = 14.9%**

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**HUMAN SERVICES: Preparing individuals for employment in career pathways that relate to families and human needs.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Personal and Home Care Aides ( <i>In Demand</i> )	Some	7,263	230	\$10.01	21.2
Eligibility Interviewers Government Programs	Some	609	21	\$18.97	10
Child Care Workers	Medium	11,296	418	\$9.41	2.2
Social and Human Service Assistants ( <i>In Demand</i> )	Medium	1,299	56	\$11.29	21.8
Residential Advisors	Medium	486	18	\$12.50	15
Clinical Counseling and School Psychologists ( <i>In Demand</i> )	Considerable	901	35	\$23.60	15.9
Probation Officers and Correctional Treatment Specialists	Considerable	689	20	\$21.93	10.9
Mental Health and Substance Abuse Social Workers	Extensive	1,565	53	\$22.38	14.3
Clinical Counseling and School Psychologists ( <i>In Demand</i> )	Extensive	901	35	\$23.60	15.9
Mental Health Counselors	Extensive	851	34	\$19.29	14.3
Medical and Public Health Social Workers ( <i>In Demand</i> )	Extensive	910	32	\$24.70	18.1
Child Family and School Social Workers ( <i>In Demand</i> )	Extensive	857	31	\$15.72	25.7
Substance Abuse and Behavioral Disorder Counselors ( <i>In Demand</i> )	Extensive	611	25	\$15.62	20.2
Clergy	Extensive	267	10	\$23.50	14.5
<b>Total</b>		<b>28,505</b>	<b>1,018</b>		
<b>Estimated 2014 Employment</b>		<b>32,983</b>			
		<b>2004-2014 Increase = 15.7%</b>			

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**INFORMATION TECHNOLOGY: Technical and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia and Systems Integration Services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Coin Vending and Amusement Machine Servicers and Repairers	Some	389	15	\$16.79	11.1
Computer Support Specialists <i>(In Demand)</i>	Medium	8,085	358	\$24.76	27.7
Network Systems and Data Communications Analysts <i>(In Demand)</i>	Medium	4,064	185	\$35.30	21.3
Computer Automated Teller and Office Machine Repairers <i>(In Demand)</i>	Medium	2,718	62	\$17.52	11.3
Computer Operators <i>(In Demand)</i>	Medium	1,182	48	\$18.58	19
Computer Software Engineers Applications <i>(In Demand)</i>	Considerable	20,231	1,238	\$39.51	34.5
Computer Systems Analysts	Considerable	10,256	344	\$36.52	16
Network and Computer Systems Administrators <i>(In Demand)</i>	Considerable	6,133	250	\$32.50	19.8
Database Administrators	Considerable	1,617	74	\$35.10	21
Computer Automated Teller and Office Machine Repairers	Considerable	2,518	62	\$17.52	11.3
Computer Hardware Engineers	Considerable	1,000	22	\$43.26	4.4
Computer and Information Systems Managers <i>(In Demand)</i>	Extensive	3,664	212	\$52.37	21.6
<b>Total</b>		<b>61,857</b>	<b>2,870</b>		

**Estimated 2014 Employment 73,146**  
**2004-2014 Increase = 18.2%**

Source: Washington St. Dept. of Employment Security  
 Workforce Explorer, November 2005

**LAW and SAFETY: Planning, managing and providing legal, public safety, protective services and homeland security including professional and technical support services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Lifeguards Ski Patrol and Other Recreational Protective Service Workers	Little or No	651	86	\$9.69	15.6
Crossing Guards <i>(In Demand)</i>	Little or No	1,035	82	\$14.46	30.5
Parking Enforcement Workers	Little or No	93	3	\$20.15	13
Security Guards <i>(In Demand)</i>	Some	7,402	395	\$11.74	24
Private Detectives and Investigators	Some	327	13	\$19.32	16.1
Gaming Surveillance Officers and Gaming Investigators	Some	258	11	\$11.45	21.6
Police Fire and Ambulance Dispatchers	Some	280	9	\$23.56	21.6
Police and Sheriff's Patrol Officers	Medium	2,228	89	\$31.02	11.1
Court Municipal and License Clerks	Medium	2,186	80	\$19.55	12
Paralegals and Legal Assistants <i>(In Demand)</i>	Medium	2,053	71	\$24.57	16
Fire Fighters	Medium	1,418	55	\$27.82	12.2
Fire Inspectors and Investigators	Medium	85	4	\$31.82	12.2
Supervisors/Managers of Police and Detectives	Considerable	601	23	\$35.17	10.8
Detectives and Criminal Investigators	Considerable	488	14	\$33.36	6.9
Law Clerks	Considerable	247	4	\$21.38	9.9
Lawyers <i>(In Demand)</i>	Considerable	8,127	280	\$45.17	13.4
Supervisors/Managers of Fire Fighting and Prevention Workers	Considerable	411	22	\$35.76	11.4
Judges Magistrate Judges and Magistrates	Considerable	179	4	\$36.60	10.8
Administrative Law Judges Adjudicators and Hearing Officers	Considerable	162	3	\$35.61	8.2
<b>Total</b>		<b>28,231</b>	<b>1,248</b>		
		<b>Estimated 2014 Employment</b>	<b>32,350</b>		
		<b>2004-2014 Increase = 14.5%</b>			

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**MANUFACTURING: Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Conveyor Operators and Tenders	Little or No	61	2	\$15.10	5.1
Cooling and Freezing Equipment Operators and Tenders	Little or No	80	3	\$11.58	6.7
Crushing Grinding and Polishing Machine Setters Operators and Tenders	Little or No	82	4	\$14.36	9.9
Pressers Textile Garment and Related Materials	Little or No	107	0	\$10.00	-2.2
Cementing and Gluing Machine Operators and Tenders	Little or No	128	2	\$17.02	0.3
Separating Filtering Clarifying Precipitating and Still Machine Setters	Little or No	133	5	\$18.04	3.1
Grinding and Polishing Workers Hand	Little or No	212	12	\$13.01	13
Sewers Hand	Little or No	240	0	\$13.18	-14.6
Mixing and Blending Machine Setters Operators and Tenders	Little or No	337	16	\$15.64	10.5
Maintenance Workers Machinery	Little or No	357	21	\$17.43	9.9
Cutters and Trimmers Hand	Little or No	362	13	\$12.15	9.4
Painting Coating and Decorating Workers	Little or No	399	30	\$16.48	12.5
Machine Feeders and Offbearers	Little or No	911	25	\$11.17	14.9
Sewing Machine Operators	Little or No	1,096	0	\$11.31	-14.6
Helpers--Production Workers <i>(In Demand)</i>	Little or No	2,127	153	\$10.59	18.5
Cleaners of Vehicles and Equipment <i>(In Demand)</i>	Little or No	2,839	153	\$10.17	14.7
Inspectors Testers Sorters Samplers and Weighers <i>(In Demand)</i>	Little or No	3,266	173	\$17.98	12.1
Chemical Equipment Operators and Tenders	Some	54	3	\$19.58	-0.7
Foundry Mold and Coremakers	Some	67	3	\$14.59	8.8
Furnace Kiln Oven Drier and Kettle Operators and Tenders	Some	93	5	\$19.87	7.9
Rolling Machine Setters Operators and Tenders Metal and Plastic	Some	99	7	\$22.68	9.5
Photographic Process Workers	Some	102	6	\$10.78	28.6
Forging Machine Setters Operators and Tenders Metal and Plastic	Some	107	3	\$18.66	7.2
Sawing Machine Setters Operators and Tenders Wood	Some	130	4	\$16.25	4.1
Coil Winders Tapers and Finishers	Some	163	0	\$8.51	-1.5
Drilling and Boring Machine Tool Setters Operators and Tenders Metal and	Some	177	7	\$14.14	11.5
Locksmiths and Safe Repairers	Some	222	15	\$17.93	26.1
Furniture Finishers	Some	255	6	\$13.98	12.3
Grinding Lapping Polishing and Buffing Machine Tool Setters Operators	Some	308	20	\$13.94	13.3
Woodworking Machine Setters Operators and Tenders Except Sawing	Some	330	10	\$13.00	4.7
Plating and Coating Machine Setters Operators and Tenders Metal and Plastic	Some	344	10	\$14.59	5
Cutting and Slicing Machine Setters Operators and Tenders	Some	383	9	\$14.37	3.8
Extruding and Drawing Machine Setters Operators and Tenders Metal and Plastic	Some	419	19	\$16.18	15.4
Extruding Forming Pressing and Compacting Machine Setters Operators	Some	453	17	\$13.61	7.7
Painters Transportation Equipment	Some	479	26	\$29.80	12.6

<b>MANUFACTURING (Contd.)</b>	<b>Preparation</b>	<b>2005 Employment</b>	<b>Projected Annual Openings</b>	<b>Median 2005 Wage</b>	<b>Projected Growth % 2004-2014</b>
Paper Goods Machine Setters Operators and Tenders	Some	509	7	\$17.51	-11.8
Dental Laboratory Technicians	Some	579	23	\$19.48	19.4
Hazardous Materials Removal Workers <i>(In Demand)</i>	Some	637	31	\$24.36	16.4
Computer-Controlled Machine Tool Operators Metal and Plastic <i>(In Demand)</i>	Some	975	70	\$26.15	16.9
Cutting Punching and Press Machine Setters Operators and Tenders Metal	Some	1,296	49	\$13.91	15.3
Sheet Metal Workers <i>(In Demand)</i>	Some	1,277	82	\$20.24	19.1
Packaging and Filling Machine Operators and Tenders <i>(In Demand)</i>	Some	2,524	76	\$11.77	10.9
Textile Cutting Machine Setters Operators and Tenders	Medium	77	0	\$13.84	-24.6
Electric Motor Power Tool and Related Repairers	Medium	82	3	\$19.76	3.9
Heat Treating Equipment Setters Operators and Tenders Metal and Plastic	Medium	97	8	\$19.20	1.3
Radio Mechanics	Medium	102	4	\$26.02	11.5
Mechanical Door Repairers <i>(In Demand)</i>	Medium	118	7	\$14.12	24.6
Molders Shapers and Casters Except Metal and Plastic	Medium	137	8	\$19.62	14.2
Welding Soldering and Brazing Machine Setters Operators and Tenders	Medium	146	9	\$17.38	11.6
Lathe and Turning Machine Tool Setters Operators and Tenders Metal and Plastic	Medium	147	8	\$18.59	14.7
Tool Grinders Filers and Sharpeners	Medium	191	19	\$16.48	12.4
Milling and Planing Machine Setters Operators and Tenders Metal and Plastic	Medium	196	16	\$19.80	11.9
Control and Valve Installers and Repairers Except Mechanical Door	Medium	199	7	\$34.22	8.9
Upholsterers	Medium	217	6	\$17.46	8.4
Tailors Dressmakers and Custom Sewers	Medium	224	6	\$15.63	0.1
Mechanical Engineering Technicians	Medium	281	18	\$25.95	24.1
Medical Equipment Repairers	Medium	315	12	\$23.26	11.2
Electronic Home Entertainment Equipment Installers and Repairers	Medium	337	10	\$18.10	7
Electromechanical Equipment Assemblers <i>(In Demand)</i>	Medium	340	7	\$12.59	8.6
Molding Coremaking and Casting Machine Setters Operators and Tenders	Medium	551	31	\$12.20	12.5
Home Appliance Repairers	Medium	630	21	\$20.81	9.4
Stationary Engineers and Boiler Operators	Medium	640	18	\$25.10	11.1
Civil Engineering Technicians <i>(In Demand)</i>	Medium	718	32	\$26.26	18.7
Multiple Machine Tool Setters Operators and Tenders Metal and Plastic	Medium	868	45	\$12.95	12
Engine and Other Machine Assemblers	Medium	930	84	\$17.37	24.6
Electrical and Electronic Engineering Technicians <i>(In Demand)</i>	Medium	1,231	46	\$29.35	13.3
Electrical and Electronics Repairers Commercial and Industrial Equipment	Medium	1,287	76	\$22.85	11.4
Industrial Machinery Mechanics <i>(In Demand)</i>	Medium	1,504	89	\$24.88	1.3
Electrical and Electronic Equipment Assemblers	Medium	1,402	16	\$14.15	1.1
Machinists (In Demand)	Medium	2,151	121	\$21.03	13.2
Supervisors/Managers of Production and Operating Workers	Medium	3,810	132	\$27.25	7.3

<b>MANUFACTURING (Contd.)</b>		<b>2005</b>	<b>Projected</b>	<b>Median 2005</b>	<b>Projected</b>
	<b>Preparation</b>	<b>Employment</b>	<b>Annual</b>	<b>Wage</b>	<b>Growth %</b>
			<b>Openings</b>		<b>2004-2014</b>
Purchasing Agents Except Wholesale Retail and Farm Products	Medium	2,883	231	\$27.30	15.1
Electro-Mechanical Technicians	Considerable	146	7	\$33.73	23.6
Jewelers and Precious Stone and Metal Workers	Considerable	350	10	\$18.53	14.2
Structural Metal Fabricators and Fitters	Considerable	808	38	\$17.24	10.1
Industrial Production Managers	Considerable	1,049	39	\$41.80	9.1
Welders Cutters Solderers and Brazers ( <i>In Demand</i> )	Considerable	2,972	175	\$20.15	12.5
Inspectors Testers Sorters Samplers and Weighers	Considerable	3,766	173	\$17.98	12.1
	<b>Total</b>	<b>55,621</b>	<b>2,652</b>		

**Estimated 2014 Employment 61,038**  
**2004-2014 Increase = 9.7%**

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**RETAIL and WHOLESALE TRADE: Planning, managing and performing marketing activities to reach organizational objectives.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Cashiers <i>(In Demand)</i>	Little or No	20,579	1,913	\$10.51	9.1
Stock Clerks and Order Fillers <i>(In Demand)</i>	Little or No	11,533	851	\$12.05	12.4
Counter and Rental Clerks	Little or No	5,408	368	\$10.99	14.3
Packers and Packagers Hand <i>(In Demand)</i>	Little or No	5,366	222	\$8.91	14.3
Driver/Sales Workers <i>(In Demand)</i>	Little or No	3,354	97	\$8.80	10.8
Demonstrators and Product Promoters <i>(In Demand)</i>	Little or No	2,377	132	\$9.13	29.8
Parking Lot Attendants <i>(In Demand)</i>	Little or No	2,359	123	\$9.24	17.8
Laundry and Dry-Cleaning Workers	Little or No	1,764	64	\$10.38	7.2
Manicurists and Pedicurists <i>(In Demand)</i>	Little or No	369	14	\$8.33	16.7
Retail Salespersons <i>(In Demand)</i>	Some	26,977	1,723	\$11.59	12
Customer Service Representatives	Some	21,010	724	\$16.19	17.6
Telemarketers <i>(In Demand)</i>	Some	5,023	191	\$11.87	2.1
Real Estate Sales Agents <i>(In Demand)</i>	Some	4,447	131	\$27.20	9.5
Parts Salespersons	Some	1,740	74	\$18.90	1.4
Floral Designers	Some	582	14	\$12.90	4.4
Pressers Textile Garment and Related Materials	Some	107	0	\$10.00	-0.6
Sales Rep. Wholesale, Manufacturing, Technical and Scientific <i>(In Demand)</i>	Medium	5,755	311	\$32.50	12.8
Hairdressers Hairstylists and Cosmetologists	Medium	5,599	207	\$12.33	11.6
Wholesale and Retail Buyers Except Farm Products	Medium	2,379	97	\$21.46	7.2
Merchandise Displayers and Window Trimmers <i>(In Demand)</i>	Medium	1,426	51	\$14.12	21.2
Bakers	Medium	1,417	47	\$12.46	10.5
Advertising Sales Agents <i>(In Demand)</i>	Medium	1,397	60	\$25.57	9
Real Estate Brokers	Medium	1,383	41	\$31.19	10.5
Interior Designers <i>(In Demand)</i>	Medium	954	45	\$21.24	8.6
Butchers and Meat Cutters	Medium	779	24	\$18.76	8.6
Fashion Designers	Medium	135	0	\$30.08	-3.9
Sales Engineers	Extensive	1,054	52	\$40.97	13
Sales Managers <i>(In Demand)</i>	Considerable	3,197	116	\$53.96	1.8
Marketing Managers <i>(In Demand)</i>	Considerable	2,112	104	\$59.81	23.5
Property Real Estate and Community Association Managers	Considerable	1,342	35	\$26.04	6.8
Purchasing Managers	Considerable	679	33	\$41.80	14.9

<b>RETAIL and WHOLESALE TRADE (Contd.)</b>	<b>Preparation</b>	<b>2005 Employment</b>	<b>Projected Annual Openings</b>	<b>Median 2005 Wage</b>	<b>Projected Growth % 2004-2014</b>
Appraisers and Assessors of Real Estate	Considerable	642	19	\$23.28	0.8
Jewelers and Precious Stone and Metal Workers	Considerable	350	10	\$18.53	1
Advertising and Promotions Managers	Considerable	346	15	\$46.44	2.5
Tailors Dressmakers and Custom Sewers	Considerable	224	6	\$15.63	0.1
<b>Total</b>		<b>144,165</b>	<b>7,914</b>		

**Estimated 2014 Employment 158,870**  
**2004-2014 Increase = 10.2%**

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005

**SCIENCE, RESEARCH and ENGINEERING: Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Weighers Measurers Checkers and Samplers Recordkeeping <i>(In Demand)</i>	Little or No	854	35	\$17.59	21.6
Surveying and Mapping Technicians <i>(In Demand)</i>	Medium	583	47	\$20.85	28.6
Social Science Research Assistants <i>(In Demand)</i>	Medium	521	24	\$15.23	18
Chemical Technicians	Medium	305	21	\$28.59	21
Cartographers and Photogrammetrists	Medium	163	12	\$28.62	18.4
Civil Engineers <i>(In Demand)</i>	Considerable	5,744	309	\$33.78	22
Medical Scientists Except Epidemiologists <i>(In Demand)</i>	Considerable	3,641	172	\$26.85	25.3
Biological Technicians <i>(In Demand)</i>	Considerable	2,914	128	\$18.32	21.1
Mechanical Engineers <i>(In Demand)</i>	Considerable	1,973	119	\$35.89	19.4
Industrial Engineers <i>(In Demand)</i>	Considerable	1,271	87	\$34.56	15.7
Electrical Engineers <i>(In Demand)</i>	Considerable	1,604	81	\$36.05	20
Chemists <i>(In Demand)</i>	Considerable	597	40	\$23.41	26.6
Electronics Engineers Except Computer (In Demand)	Considerable	1,177	32	\$34.45	11.6
Chemical Engineers	Considerable	249	18	\$39.24	24.9
Microbiologists	Considerable	233	12	\$23.47	20.5
Environmental Science and Protection Technicians Including Health	Considerable	195	10	\$19.80	19.8
Avionics Technicians	Considerable	172	8	\$31.02	10.3
Engineering Managers <i>(In Demand)</i>	Extensive	2,399	164	\$56.21	19.3
Environmental Scientists and Specialists Including Health <i>(In Demand)</i>	Extensive	1,624	77	\$29.65	21.8
Natural Sciences Managers <i>(In Demand)</i>	Extensive	681	30	\$53.37	18.3
Geoscientists Except Hydrologists and Geographers	Extensive	571	28	\$36.31	24.8
Marine Engineers and Naval Architects	Extensive	174	11	\$32.31	16.3
Health and Safety Engineers Except Mining Safety Engineers and Inspectors	Extensive	220	10	\$33.61	14.3
Hydrologists	Extensive	144	8	\$37.05	23
Materials Engineers	Extensive	114	7	\$28.49	10.1
Anthropologists and Archeologists	Extensive	116	7	\$20.51	27.9
Political Scientists	Extensive	97	4	\$27.33	18.2
<b>Total</b>		<b>28,336</b>	<b>1,501</b>		

**Estimated 2014 Employment 33,989**  
**2004-2014 Increase = 19.9%**

Source: Washington St. Dept. of Employment Security  
 Workforce Explorer, November 2005

**TRANSPORTATION, DISTRIBUTION and LOGISTICS: Planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation, infrastructure planning and management, logistics services, mobile equipment and facility maintenance.**

	Preparation	2005 Employment	Projected Annual Openings	Median 2005 Wage	Projected Growth % 2004-2014
Truck Drivers Light or Delivery Services	Little or No	8,519	204	\$13.79	12.2
Postal Service Mail Carriers	Little or No	2,418	62	\$22.99	0.7
Taxi Drivers and Chauffeurs	Little or No	1,517	37	\$11.85	13.7
Tire Repairers and Changers	Little or No	652	35	\$11.12	-0.4
Transportation Attendants Except Flight Attendants and Baggage Porters	Little or No	487	16	\$9.76	26.1
Ambulance Drivers and Attendants Except Emergency Medical Technicians	Little or No	217	7	\$11.69	23.3
Bridge and Lock Tenders	Little	64	2	\$20.01	8
Truck Drivers Heavy and Tractor-Trailer ( <i>In Demand</i> )	Some	11,741	349	\$19.25	14.5
Production Planning and Expediting Clerks ( <i>In Demand</i> )	Some	2,148	88	\$20.26	10.8
Bus Drivers School (In Demand)	Some	2,130	81	\$15.88	17.4
Dispatchers Except Police Fire and Ambulance ( <i>In Demand</i> )	Some	1,631	65	\$19.59	17.5
Cargo and Freight Agents	Some	1,373	45	\$20.51	20
Sailors and Marine Oilers	Some	1,118	49	\$19.82	15.8
Automotive Body and Related Repairers	Some	1,082	38	\$21.54	13.9
Postal Service Clerks	Some	483	10	\$22.99	0.7
Motorcycle Mechanics	Some	106	4	\$16.84	29
Bicycle Repairers	Some	55	4	\$10.85	12.8
Automotive Service Technicians and Mechanics ( <i>In Demand</i> )	Medium	3,337	140	\$21.35	11.8
Supervisors/Managers of Transportation and Material-Moving	Medium	2,099	97	\$28.28	14.2
Court Municipal and License Clerks	Medium	2,486	80	\$19.55	12
Bus and Truck Mechanics and Diesel Engine Specialists ( <i>In Demand</i> )	Medium	2,457	90	\$23.33	13.6
Supervisors/Managers of Helpers Laborers and Material Movers	Medium	1,394	45	\$24.01	13.2
Transportation Storage and Distribution Managers	Medium	1,118	33	\$41.94	11.9
Motorboat Mechanics	Medium	328	12	\$20.43	17.9
Tank Car Truck and Ship Loaders	Medium	218	9	\$21.72	19.1
Outdoor Power Equipment and Other Small Engine Mechanics	Medium	212	9	\$19.28	16.2
Electronic Equipment Installers and Repairers Motor Vehicles	Medium	90	3	\$10.50	4.1
Farm Equipment Mechanics	Medium	74	3	\$16.09	5.3
Aircraft Mechanics and Service Technicians	Considerable	2,108	164	\$31.27	21.9
Captains Mates and Pilots of Water Vessels ( <i>In Demand</i> )	Considerable	1,088	44	\$29.66	17.2
Mobile Heavy Equipment Mechanics Except Engines	Considerable	1,078	45	\$23.67	10.9
Transportation Inspectors	Considerable	513	29	\$33.10	15.9
Air Traffic Controllers	Considerable	468	10	\$61.04	3.2
Commercial Pilots	Considerable	269	19	\$47,846 yr	20.4

<b>TRANSPORTATION, DISTRIBUTION and LOGISTICS (Contd.)</b>	<b>Preparation</b>	<b>2005 Employment</b>	<b>Projected Annual Openings</b>	<b>Median 2005 Wage</b>	<b>Projected Growth % 2004-2014</b>
Ship Engineers	Extensive	651	36	\$27.04	15
	<b>Total</b>	<b>55,729</b>	<b>1,964</b>		
		<b>Estimated 2014 Employment</b>	<b>63,447</b>		
			<b>2004-2014 Increase = 13.8%</b>		

Source: Washington St. Dept. of Employment Security  
Workforce Explorer, November 2005