

Oregon Healthcare
Workforce Institute



Students Completing Healthcare Workforce Studies In Oregon

SUPPLY TREND ANALYSIS

May 2007

The following report is a collective effort of the health occupation educational programs in Oregon. This effort was completed with the assistance of Hilary Gossler, OHWI student intern from Washington State University at Vancouver. OHWI thanks all involved for their participation. Any additions or corrections to this report should be sent to OHWI and changes will be made on the web document.

For more information on Oregon's healthcare workforce, please see OHWI's website at www.oregonhwi.org.

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During the past three biennia (2001-2006) Oregon has been in an economic recession. Consequently, the state resources available and appropriated to public education at all levels by the Oregon Legislature during these six years were substantially decreased. During this same period, significant shortages grew in the healthcare workforce and are predicted to worsen over the coming decade. Overall, it is clear that as the state withdrew funds to the community colleges, OUS and OHSU, the private sector made substantive contributions to bolster healthcare occupation training programs. See OHWI's website for a companion report, *Partnerships and Investments in Oregon's Healthcare Workforce, Private and Federal Government Contributions, January 2005 through March 2007*. This supply trend analysis looks at program completers in fifteen healthcare shortage occupations.

These trends are compared to the latest "needs" or demand analysis of healthcare occupations conducted by the Oregon Employment Department (OED) as reported in the *Oregon Health Care Workforce Needs Assessment, 2006*. This is the first healthcare occupations report by the OED following a legislative request in 2005. The healthcare industry was surprised by the findings of the OED analysis. There is general belief that there are greater shortages in healthcare occupations than those reported by the OED. Oregon Center for Nursing data have been referenced in the nursing section. The Oregon Healthcare Workforce Institute, Oregon Center for Nursing, Oregon Office of Rural Health, Area Health Education Centers and the various healthcare professional organizations (OAHHS, OHCA, OMA, etc.) will continue to collect and refine the demand data.

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Dental Hygienists

In 2002 OHSU ended its dental hygiene program effectively eliminating 26 new graduates per year. The OED analysis indicates the need for 129 new dental hygienists per year. Existing programs produced 90 new dental hygienist graduates in 2006. OIT's new program with Oregon Dental Service and Eastern Oregon University in La Grande will add another 25 Associate degree dental hygienists in 2007. OIT is also pursuing increased funding, possibly in partnership with an Oregon community college, to

add 24 Associate degree graduates. A partnership between Lane Community College and Linn Benton Community College will add 6 additional students beginning Fall 2007. Furthermore, Pacific University began offering, for the first time in Fall 2006, a Bachelor's level Dental Hygiene program. They expect to graduate their first class of 32 students in Spring 2008.

DENTAL HYGIENISTS

	2001	2002	2003	2004	2005	2006	Projected 2007	Projected 2008
<u>(Associate degree)</u>								
Lane CC	17	18	17	18	17	19	20	20
Mt. Hood CC	16	16	15	16	16	19	20	20
OIT	6	32	30	20	1	0	42	42
Portland CC	18	19	19	20	19	20	20	20
<u>(Bachelor's degree)</u>								
OIT	6	22	26	19	23	32	60	61
OHSU	29	26*	0	0	0	0	0	0
Pacific University	0	0	0	0	0	0	0	32
TOTAL	92	133	107	93	76	90	162	195

Note: * indicates program termination

Diagnostic Medical Sonographers and Ultrasound Technologists

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Ultrasonography is a growing diagnostic modality. The OED report projects the demand for new diagnostic sonographers at 13 per year. OIT's Bachelor's program offers degrees in diagnostic medical sonography, vascular ultrasound and a distance education degree completion in echocardiography. Each of these ultrasound specialties will be expanded with the completion of the new health sciences building; this includes the offering of a full echocardiography program at the Klamath Falls campus beginning in 2008.

DIAGNOSTIC MEDICAL SONOGRAPHERS AND ULTRASOUND TECHNOLOGISTS

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
Portland CC (Associate degree)	10	10	10	7	8*	0	0	0
OIT (Bachelor's degree)	41	28	26	30	48	58	68	68
TOTAL	51	38	36	37	56	58	68	68

Note: * indicates program termination

Medical and Clinical Lab Technologists

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The OED report asserts the need for 89 new laboratory technologists per year. The updated educational pipeline information in this report would indicate that Oregon is making progress in meeting this need. Further, Portland Community College is presently working on expanding their Associate degree program via on-line delivery of didactic classes in partnership with other community colleges around the state.

Oregon Institute of Technology has a budget request in process to expand their Bachelor's prepared program to add an additional 24 students at their Klamath Falls campus beginning Fall 2008.

MEDICAL AND CLINICAL LAB TECHNOLOGISTS

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
<u>(Associate Degree)</u>								
Portland CC	20	18	15	18	15	17	20	20
Linn-Benton CC	13	22	19	19	14	10	15	15
<u>(Bachelor's Degree)</u>								
OIT	25	12	19	23	18	22	23	25
OHSU	18	17	0	0	0	0	0	0
TOTAL	76	69	53	60	47	49	58	60

Mental Health Counselors

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This is an occupational category that is complicated and problematic. The OED excludes psychiatrists, psychologists and social workers from this category. However, this still leaves a broad array of health care workers. The OED report declares that nearly two-thirds of the reported vacancies required a Bachelor's degree or higher. There is a behavioral health task force that asserts that the skills that program graduates have following completion of their training do not align with the needs of mental health and substance abuse employers. Follow-up research will be required to resolve the issue.

MENTAL HEALTH COUNSELORS

<u>(Associate Degree)</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
Central Oregon CC (Addiction Studies)	2	4	3	4	1	5	5	5
Chemeketa CC (Mental)	5	9	5	5	4	6	8	8
Portland CC (Alcohol/Drug)	3	9	4	1	9	6	10	10
Rogue CC (Substance Abuse)	5	9	6	7	7	7	8	8
Southwestern Oregon CC (Substance Abuse)	1	4	2	1	2	0	4	4
Mt. Hood CC (Mental)	13	12	14	10	22	18	20	20
Mt. Hood CC (Alcohol/Drug)	24	24	24	24	24	24	24	24
Lane CC (Mental)	11	17	12	5	7	13	20	20
<u>(Certificate, Bachelor's and Graduate Programs)</u>								
Concordia University (BS in Social Work)	N/A	10	13	7	7	15	13	15
George Fox University (MA in Counseling)	27	27	28	30	41	42	45	45
PSU (BS Certificate in Addiction Studies)	0	0	0	1	5	2	N/A	N/A
TOTAL	91	125	111	95	129	138	157	159

Certified Nursing Assistants

The OED report indicates an annual need for 457 new CNAs. The Oregon State Board of Nursing reports that of the graduates from Oregon's CNA educational programs in 2006, currently 1,653 hold active certification. In addition, CNA certificates were issued to an approximate 500 additional applicants by endorsement (they were CNAs in other states), yet the OED reported an 11% vacancy rate. This was due to a multitude of factors. Factors that have been previously documented include nature of the job (difficult work, low starting pay and benefits), better job alternatives, and baby boom demographics. Other factors include unreliable data on turnover due to extensive employment options available upon or shortly after

completion of training (including opportunities outside of training facility). Finally, demand for CNA services are anticipated to increase as the recommendations from the Nursing Facility Staffing Commission Final Report are implemented in 2008 and 2009. DHS has calculated that implementation of the new CNA minimum standards will require facilities to employ 500 to 700 new CNAs statewide. Given these factors, Oregon will need to continue to train additional CNAs and should undertake efforts to obtain reliable data regarding issues underlying the vacancy and turnover rates.

CNA2 categories: The Oregon State Board of Nursing certifies CNA2s in three categories of care: CNA2–Acute Care (34 certified to date) CNA2-Restorative Care (56 certified to date) In addition, a new CNA2-Dementia Care has been approved.

CERTIFIED NURSING ASSISTANTS (SHEET 1)

The following figures reflect number of graduates currently certified; graduates are placed under their graduation year.

(Non-Degree Programs)	2001	2002	2003	2004	2005	2006
Albany						
Linn Benton Community College	29	26	39	47	52	57
Mennonite Home	3		3			
Ashland						
Crestview		3	2			
Astoria						
Clatsop Care Center	9	11	10	14	22	14
Tongue Point Job Corps				8	9	9
Baker City						
St. Elizabeth Health Services	2		7	11	8	
Bandon						
Ocean View Care Center		2	2			
Beaverton						
Maryville Nursing Home				8		
Bend						
Bend Guest Home				14	22	
Central Oregon Community College	22	8	19	11	23	23
Harmony Healthcare				5	2	
Regency Pacific						19
Sunriver Living Training Center	20	27	39			
Coos Bay						
Hearthside Care Center			6	9		
Life-Care of Oregon	2	6		6	7	12
Southwestern Oregon Community CC	16	59	47	51	32	6
Corvallis						
Corvallis Care Center	12	2				
Corvallis Manor Nursing Home		11	16	18	25	39
Heart of the Valley	8	17	24	39	35	17
Creswell						
Creswell Care Center	1					
Dallas						
Dallas Retirement Village-Health Care Ctr.	4	11	7	14	21	26
Dalles						
Columbia Gorge Community College	15	22	26	24	39	62
SUB-TOTAL FOR SHEET 1	143	205	247	279	297	284

CERTIFIED NURSING ASSISTANTS CONT. (SHEET 2)

The following figures reflect number of graduates currently certified; graduates are placed under their graduation year.

	2001	2002	2003	2004	2005	2006
Enterprise						
Wallowa County Nursing Home	3					
Wallowa Valley Care Center	8	8	6	5	4	8
Eugene						
Eugene Good Samaritan Health	11	9	13	24		
Green Valley Rehab. Health Center	8	6				
Hillside Communities	3					
Hillside Heights Rehab. Center	6				1	
Holy Cross Nursing Asst. Education					5	29
Lane Community College	45	63	102	123	110	77
New Care Directions	28	16	11	21		
New Horizons Health Care Education	32	41	34	56	13	
Nursing Quest 1 Education					28	45
South Eugene High School	1					
South Hills Care Center	19	24	2			
South Towne Living Center		2	2			
Florence						
Lane Community College				3	18	3
Forest Grove						
Camelot Care Center	15	4				
Grants Pass						
Laurel Hill Nursing Home			1			
Royale Gardens	11	19	19	16	24	25
Gresham						
Center for Advanced Learning-MHCC						14
Fairlawn Good Samaritan Center	17	7	7			
Mt Hood Community College	14	19	27	40	55	61
Hillsboro						
Evergreen Hillsboro Health	5		4			
Hillsboro School District		1	4			3
Hood River						
Hood River Care Center	7	3				
Independence						
Evergreen Independence Health	1					
Junction City						
Grandview Manor Care Center	3	8				
SUB-TOTAL FOR SHEET 2	237	230	232	288	258	265

CERTIFIED NURSING ASSISTANTS CONT. (SHEET 3)

The following figures reflect number of graduates currently certified; graduates are placed under their graduation year.

	2001	2002	2003	2004	2005	2006
Klamath Falls						
Klamath Community College					12	24
Klamath Regional Rehab Center			9	3	14	4
Merle West Medical Center	4			4	1	4
Plum Ridge Care Center	7	7				
La Grande						
Evergreen Vista Health and Rehab		11	1			
Lakeview						
Lake District and Long Term Care	4	7	8	4	6	
Lincoln City						
Lincoln City Rehabilitation Center	2					
Madras						
Mt. View Hospital District					1	
Mt. View Hospital District Living Ctr.					9	2
McMinnville						
Merle Williams, RN	1	16	7	6	28	12
Oakwood Country Place	1					
Medford						
Asante/Hearthstone Manor	8	14	6	29	23	4
Medford Rehab and Healthcare Ctr.					12	12
Northridge Ctr. Nurse Assistant		2				
Rogue Community College	29	22	43	66	75	48
Rogue Valley Manor	6	2		1		
Samaritan Health Services	2	3				
Samaritan Nurse Assistant		14	25	36	17	18
Waterford at Three Fountains			15	2	5	3
Mt. Angel						
Providence Benedictine Sheltered Lang.		3	24	17	7	8
Providence Benedictine Nursing Center	24	28	11	16	27	23
Newberg						
Newberg Care Home	5	3	15	9	9	13
North Bend						
Baycrest Village			10	6	9	17
North Bend H.S. and Hearthsides Rehab.				9	16	18
Ontario						
Treasure Valley Community College	18	23	22	36	34	28
SUB-TOTAL FOR SHEET 3	111	155	196	244	305	238

CERTIFIED NURSING ASSISTANTS CONT. (SHEET 4)

The following figures reflect number of graduates currently certified; graduates are placed under their graduation year.

	2001	2002	2003	2004	2005	2006
Oregon City						
Clackamas Community College					37	50
Mt. View Rehab. & Living Center		1				
Pendleton						
Blue Mountain Community College	7	14	14	3	14	37
Blue Mountain Nursing Home	3					
Portland						
Benson High School	5	5	2	8	3	5
Care Center East		1	3			
Evergreen Karrington Health & Rehab.	6	12	2			
Friendsview Manor	6	2	2		4	8
Good Samaritan Center	4	1	1			
Good Samaritan Hospital & Med. Ctr.	9					
Marquis Companies	50	49	61	71	74	66
Mt. St. Joseph Inc.	1					
New Care Directions	124	182	206	189	294	4
New Care Directions Nursing Pilot		31	63	160	27	
Portland Community College	14	61	96	146	145	140
Prestige Care Inc.		20	23	18	73	105
Reedwood Extended Care Center	11	7	6			
Town Center Village	3					
Trinity Learning Center, Inc.				10	51	
Redmond						
Redmond High School	2	3	5			
Reedsport						
Lower Umpqua Hospital		4	4			5
Roseburg						
Mercy Rehabilitation and Care Center	11	11	6			
Rose Haven Nursing Center	7	9				
Roseburg Senior High School	1	3	3	8	9	5
Umpqua Community College	11	20	22	27	23	14
Salem						
Chemeketa Community College		14	38	35	38	25
Oregon State Hospital						14
Salem Hospital	15	23				
Salem Hospital Nurse Assistant Pilot		14	21	28	16	
South Salem Care Center	2					
Sunnyside Care Center	3					5
Valley Medical College						3
Valley Medical Placements						7
SUB-TOTAL FOR SHEET 4	295	487	578	703	808	493

CERTIFIED NURSING ASSISTANTS CONT. (SHEET 5)

The following figures reflect number of graduates currently certified; graduates are placed under their graduation year.

	2001	2002	2003	2004	2005	2006
Seaside						
Providence Seaside Hospital	3	4	4	10	10	14
Springfield						
Pinnacle Health Care	17	18	55	55	107	118
Springfield High School	1	2	4	2	7	
Thurston High School	4	4	4	8	5	3
St. Helens						
Meadowpark Health and Spec. Care Ctr.					12	12
Sublimity						
Marian Estates	18	32	26	29	3	
Tillamook						
Tillamook Bay Community College	1	4			2	3
Troutdale						
Springdale Job Corps Center		2	2	3	7	5
Tualatin						
Tualatin Valley Living Center	5					
Wheeler						
Nehalem Valley Care Center	1					
Wilsonville						
Avamere Health Services, Inc.	47	29	35	36	19	10
Woodburn						
Cascade Medical School					7	208
French Prairie Care Center	5	2				
SUB-TOTAL FOR SHEET 5	102	97	130	143	179	373

SUB-TOTAL FOR SHEET 1	143	205	247	279	297	284
SUB-TOTAL FOR SHEET 2	237	230	232	288	258	265
SUB-TOTAL FOR SHEET 3	111	155	196	244	305	238
SUB-TOTAL FOR SHEET 4	295	487	578	703	808	493
SUB-TOTAL FOR SHEET 5	102	97	130	143	179	373

GRAND TOTAL FOR ALL SHEETS:	888	1,174	1,383	1,657	1,847	1,653
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Licensed Practical Nurses

The demand for Licensed Practical Nurses (LPNs) in Oregon is also complex. Long-term care is where many Oregon LPNs are employed. Recent graduates report the need for better preparation in supervisory and leadership roles of the LPN, particularly in long-term care settings.

LPNs have not had a substantial role in acute care (hospital based) in Oregon for the past fifteen years. Unlike other states such as California, where LVNs (the equivalent of LPNs) have a vital role in the team delivery of acute care, LPNs in Oregon have all but left acute care settings. The Oregon State Board of Nursing is in the process of reassessing the scope of practice for LPNs in Oregon. Further, a broadly representative LPN Task Force is examining LPN issues in Oregon. The trend in program graduates is also interesting and complicated.

Over the past six years there has been considerable fluctuation in the number of LPN program graduates. Most LPN programs were embedded in ADN programs, so we did not really build the LPN workforce, other than temporarily. The Oregon Consortium for Nursing Education (OCNE) curriculum, a collaborative nursing

program among 7 community colleges and OHSU, does not include an LPN exit. This therefore reduces the number of nursing students eligible to become LPNs. Rogue Community College, the last community college to close a free standing program in 1982, was also the first to re-establish a free standing program and has had a successful history for several years. Mt. Hood Community College is starting an LPN program April 2007 with approximately 30 students, and 3 proprietary schools have begun LPN programs as well. In addition, Chemeketa Community College began a second LPN program in McMinnville in April 2007, adding an additional 18 students.

The OED report indicates the annual need for 123 new LPNs. The long-term care community anecdotally reports greater needs. More "needs" data are required to verify projected need. If, however, the role of the LPN is enhanced and they are welcome in acute care settings, then the demand for LPNs could precipitously increase.

LICENSED PRACTICAL NURSES

(Non-Degree Programs)	2001	2002	2003	2004	2005	2006	Projected 2007	Projected 2008
Apollo College	0	0	0	0	0	0	36	36
Blue Mountain CC	12	8	22	48	30	14	30	30
Central Oregon CC	27	35	33	32	35	9	36	36
Chemeketa CC	53	56	69	59	62	40	54	54
Clackamas CC	31	26	3**	0	0	0	0	0
Clatsop CC	22	18	18	14	27	6	33	33
Columbia Gorge CC	0	19	20	22	24	18	24	24
Lane CC	44	57	30	43	70	49	71	71
Linn-Benton CC	20	35	34	36	1**	0	0	0
Mt. Hood CC	0	0	0	0	0	0	24	24
Pioneer Pacific	0	0	0	0	0	0	34	17
Rogue CC	35	33	23	22	28	16	15	15
SW Oregon CC	16	18	12	23	26	2	25	25
Treasure Valley CC	17	22	27	22	27	11	30	30
Umpqua CC	37	33	37	57	61	47**	0	0
Valley Medical College	0	0	0	0	0	0	36	36
TOTAL	314	360	325	378	390	165	412	395
Percent change over previous year		14.65%	-9.72%	16.31%	3.17%	-57.69%	176.96%	-3.72%
New licenses by exam - OSBN*	254	230	297	333	306	201		
New licenses by endorsement - OSBN*	162	171	154	158	171	203		
Total for fiscal year (ending June 30)	416	401	451	491	477	404		

*Oregon State Board of Nursing; ** indicates program termination

Registered Nurses

The demand for qualified registered nurses is robust. In the next ten years the demand is projected to increase substantially as Oregon's population grows and ages and as nurses presently in the workforce retire. In spite of Oregon's recession of the past six years, completers in Associate degree registered nursing programs at community colleges and Bachelor's degree registered nursing programs at public and private universities substantially increased between 2001 and 2006. In fact, Associate degree registered nursing programs graduated 53.7% more students in 2006 than in 2001. Similarly, Bachelor's degree registered nurse graduates increased from 309 to 615, or 99% between 2001 and 2006. Much of this increase in program capacity and consequently student completers was made possible by generous gifts and investments from the private sector. Overall between 2001 and 2006 there was a 73.8% increase in new registered nurses educated in Oregon. This trend is projected to increase as new Bachelor's nursing programs are now offered at George Fox University and Concordia University. Further, Pacific University is considering

implementing a bilingual/bicultural Bachelor's degree registered nursing education program.

The shortage of registered nurses is complex. Presently there seems to be plenty of new graduates in metropolitan Portland entering the workforce. At the same time there are significant shortages in specialty nurse roles particularly in critical care, psychiatry, public health, emergency department and operating room. Further, rural shortages can be severe. Many hospitals and health systems are staffing specialty nurses, when available, from agencies. This increases the costs of care. Further, as existing nurses retire over the coming decade there will be a continued need for all nurses, including specialty educated registered nurses.

The Oregon Center for Nursing projects a need for 15,700 nurses by 2015. National and Oregon-specific data from HRSA indicate an even larger need. There is a current and increasing need for qualified nursing faculty to educate the next generation of registered nurses.

REGISTERED NURSES (ADN and BSN)

(Associate Degree)								Projected	Projected
		2001	2002	2003	2004	2005	2006	2007	2008
Blue Mountain CC	ADN	21	18	20	23	47	30	30	30
Central Oregon CC	ADN	26	23	33	32	35	45	36	36
Chemeketa CC	ADN	35	49	47	57	55	60	63	63
Clackamas CC	ADN	30	30	43	43	28	28	38	40
Clatsop CC	ADN	20	16	24	16	21	21	33	33
Columbia Gorge CC	ADN	0	0	19	19	17	18	24	24
Lane CC	ADN	45	48	62	71	68	69	80	80
Linn-Benton CC	ADN	34	40	45	47	40	38	45	45
Mt. Hood CC	ADN	18	41	37	47	51	66	80	80
Oregon Coast CC	ADN	0	0	0	0	0	0	0	20
Portland CC	ADN	71	75	79	63	93	83	100	100
Rogue CC	ADN	19	22	23	26	24	32	29	30
SW Oregon CC	ADN	16	17	13	20	26	25	27	30
Treasure Valley CC	ADN	17	18	19	24	15	18	30	30
Umpqua CC	ADN	35	32	33	34	50	62	63	63
Sub-Total ADN Completers		387	429	497	522	570	595	678	704
(Bachelor's Degree)									
Concordia University	BSN	0	0	0	0	0	0	29	30
George Fox University	BSN	0	0	0	0	0	0	0	35
Linfield College	BSN	71	102	111	93	176	141	120	120
OHSU	BSN	146	154	184	163	178	257	275	275
University of Portland	BSN	55	66	73	96	120	171	152	196
Walla Walla College	BSN	37	31	43	40	45	46	48	49
Sub-Total BSN Completers		309	353	411	392	519	615	624	705
GRAND TOTAL - COMPLETERS		696	782	908	914	1,089	1,210	1,302	1,409
Percent change over previous year			12.36%	16.11%	0.66%	19.15%	11.11%	11.12%	3.94%
New licenses by exam - OSBN*		950	786	1,053	1,073	1,223	1,157		
New licenses by endorsement - OSBN*		1,388	2,207	1,643	1,297	1,342	1,740		
Total for fiscal year (ending June 30)		2,338	2,993	2,696	2,370	2,565	2,897		

*Oregon State Board of Nursing

Occupational Therapists

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The OED report indicates that 29 new occupational therapists are required per year to meet the employment demands. Presently, only Pacific University has a training program (master's level) and they are graduating about 20 per year. There appears to be the need for another educational program or expansion of the existing program at Pacific University.

Note: Occupational Therapist Assistants

The OED report projects the need for occupational therapist assistants as small, at five per year. With the aging of the population and the growth of rehabilitation hospitals and facilities, however, a greater need and demand for occupational therapist assistants is anticipated and calls for development of a training program in Oregon. At present, no occupational therapist assistant program exists in Oregon.

OCCUPATIONAL THERAPISTS

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
(Masters Degree)								
Pacific University	19	17	19	8	18	19	20	21

Pharmacists

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The OED report indicates 126 new pharmacists per year are required to meet the demands of employers. With a growing population, an increased percentage of the population who are elderly, increasing prescription coverage and increasing public policy on expanding access to health insurance, this estimate of “need” seems low. Further, there is substantial competition between the hospital (institutional) and the retail pharmacy employers for new pharmacists. Hospitals are at a disadvantage as retail pharmacies pay more, have no night shifts and no call.

Further, pharmacists are now required to be educated at the doctorate level. Until now, only Oregon State University (in conjunction with OHSU) has offered a doctorate in pharmacy program in Oregon with between 60 and 80 graduates annually. Pacific University has now started a second doctorate in pharmacy program and will graduate their first class of 67 pharmacists in 2009. The program will graduate 84 pharmacists in 2010 and approximately 96 graduates per year thereafter.

PHARMACISTS

<u>(Doctorate Degree)</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
Oregon State University	9	1	55	70	64	78	80	80
Pacific University	0	0	0	0	0	0	0	0*

*Note: Pacific University's first class in the Pharmacy program began in fall of 2006 and 67 students are projected to graduate in 2009. In 2010, 84 students are expected to graduate and the number will increase to 96 the following year.

Physical Therapists

- 23 -

The OED report clearly states the crisis in physical therapy. Presently only one doctoral program in physical therapy exists in Oregon at Pacific University. This program is graduating approximately 37 physical therapists with doctorates annually. The projected need is for 62 physical therapists per year. There is the need for expanding the existing program at Pacific University or starting a new program.

It is important that representatives from industry (acute care hospital, rehabilitation hospital, long-term care and outpatient therapy) convene with the licensing board and the professional organizations to discuss the skills they require. There is concern that requiring a doctorate for entry into the field is unnecessary and is slowing the pipeline of physical therapists.

PHYSICAL THERAPISTS

<u>(Doctorate Degree)</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
Pacific University	36	36	36	34	36	37	37	37

Physical Therapist Assistants

- 25 -

The OED report indicates the need for 20 new physical therapist assistants annually to meet the needs of Oregon. This estimate may well be understated with a growing population, an increased percentage of the population who are elderly, increasing prescription coverage and increasing public policy on expanding access to health insurance. Further, with the scarcity of physical therapists, physical therapist assistants

could very well be in greater demand as therapists may be required to supervise increasing numbers of assistants. The only physical therapist assistant program in Oregon is at Mt. Hood Community College which is graduating 24 physical therapist assistants per year.

PHYSICAL THERAPIST ASSISTANTS

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
(Associate Degree)								
Mt. Hood CC	17	20	13	16	18	24	24	24

Physicians and Surgeons

- 27 -

The OED report projects the need for 193 new physicians per year. The only educational program in Oregon is at OHSU and is graduating approximately 100 physicians annually. With a growing population, an increased percentage of the population who are elderly, increasing prescription coverage and increasing public policy on expanding access to health insurance, the need for physicians may well be understated. Further, there is a growing need for physicians in rural areas of Oregon. OHSU (and the Governor) has asked the 2007 legislature for funds to expand the number of slots for medical students by 60. Further, the expansion is proposed to distribute students to Eugene and Corvallis. One challenge with increasing the pipeline of physicians is the long training period and the fact that merely increasing the medical school class size may not impact physician availability in Oregon. Following medical school, physicians must complete specialty residencies of 3-6 years of

additional graduate training. The federal government (mostly through Medicare reimbursement) regulated the number of funded residency slots available in the United States and this number has been capped for some years. Additionally, Oregon is losing physicians due to retirement and the deteriorating practice environment caused by lower Medicare reimbursements and the escalating rates of liability insurance. Oregon will likely continue to struggle to meet its needs for physicians particularly in primary care areas (family medicine, internal medicine and pediatrics) for the foreseeable future. Available data suggests that to attract and retain physicians in Oregon, improvements in areas such as liability, reimbursement, and support for rural practice is necessary to be competitive in a national marketplace.

PHYSICIANS AND SURGEONS

<u>(Doctorate Degree)</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
OHSU	104	93	85	82	109	99	115	115

Radiologic, CAT and MRI Technologists and Technicians

- 29 -

The OED report indicates an annual need for 89 new Radiologic, CAT and MRI technologists and technicians in order to meet the expected demand in the coming decade. Existing educational programs produced approximately 112 new graduates in 2006 at the Associate and Bachelor's degree level.

RADIOLOGIC, CAT AND MRI TECHNOLOGISTS AND TECHNICIANS

	2001	2002	2003	2004	2005	2006	Projected 2007	Projected 2008
<u>(Associate Degree)</u>								
Linn-Benton CC	0	0	0	0	22	23	25	25
Portland CC	26	29	32	45	43	46	48	48
<u>(Bachelor's Degree)</u>								
OIT	24	18	24	25	37	35	39	39
OHSU	6	6	7	7	8	8	7	9
TOTAL	56	53	63	77	110	112	119	121

Respiratory Therapists

The OED report projects the need for 64 new respiratory therapists annually in Oregon. Presently three training programs (Lane Community College, Mt. Hood Community College and OIT) together produced 58 graduates in 2006. Lane and Mt. Hood project an increase in their class size in the coming two years to produce a total of 50 new respiratory therapists annually. OIT assumed the respiratory care program from Rogue Community College and now offers an Associate and Bachelor's degree completion program. OIT had 19 AA graduates in 2006, 22 in 2007 and is projecting 20 in 2008. However, there is still a gap and the need for program expansion or the creation of a new training program.

RESPIRATORY THERAPISTS

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
<u>(Associate Degree)</u>								
Lane CC	12	8	11	11	10	15	20	20
Mt. Hood CC	9	10	16	16	15	20	30	30
Rogue CC	11	9	8	8*	0	0	0	0
OIT	0	0	0	0	0	19	22	20
<u>(Bachelor's Degree)</u>								
OIT	0	0	0	0	0	4	9	9
TOTAL	32	26	35	35	25	58	81	79

Note: *indicates program termination

Speech and Language Pathologists

- 33 -

The OED report indicates the need for speech and language pathologists is being met in the medical field. However, there is a large unmet need for speech and language pathologists in public education where in 2005 nearly two-thirds of educational service districts had openings for speech and language pathologists.

Presently two master's level training programs exist in Oregon (University of Oregon and Portland State University) with an annual combined 43 program graduates. The programs hope to increase their class sizes to graduate 53 speech and language therapists at the master's level annually.

SPEECH AND LANGUAGE PATHOLOGISTS

<u>(Bachelor's Degree)</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Projected <u>2007</u>	Projected <u>2008</u>
University of Oregon	21	16	12	25	20	17	25	25
Portland State University	23	20	13	18	23	26	28	28
TOTAL	44	36	25	43	43	43	53	53

Oregon Healthcare
Workforce Institute



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*To advance the development of a high-quality healthcare workforce
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