SOUTH DAKOTA DEPARTMENT OF HEALTH

2015
Healthcare Workforce Report

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Background

Recognizing the importance of a highly trained and available healthcare workforce, the South Dakota Department of Health established the Healthcare Workforce Center to help address the healthcare workforce needs of the State. The purpose of the Center is to function as a clearinghouse for healthcare workforce-related data and information. The Center is also designed to develop and implement programs and projects that assist individuals, agencies and facilities in their efforts to ensure a competent and qualified healthcare workforce to meet the health needs of all South Dakota residents.

Based on population and employment statistics, projections indicate that thousands of healthcare workers will be needed in the healthcare industry in the next decade. This profile of healthcare professions serves as an aid in planning for the healthcare workforce needs in the future. The report draws upon labor statistics, educational preparation data, and current health professions' licensing registries. The report profiles the healthcare workforce projected needs in the future and workforce distribution by geography, age, and profession. The report is designed to be used by policy-makers in the development and coordination of healthcare education and recruitment programs to meet the healthcare workforce needs of the future.

For more information contact the Healthcare Workforce Center at the Department of Health at (605) 773-3361.

Employment in South Dakota's Healthcare Industry

South Dakota's healthcare industry has experienced substantial and steady growth since 1972 when record keeping began. Growth of the healthcare industry is projected to continue for the foreseeable future and is projected to be one of South Dakota's largest growth industries over the next decade. The industry's demand for workers is driven in part by:

- an aging patient population;
- an expanding general population;
- technological advances in the workplace requiring additional staff;
- a growing emphasis on disease management; and
- an aging healthcare workforce who must be replaced as they retire.

The number of workers (covered by unemployment insurance) in South Dakota's healthcare industry increased by 83.4 percent from 1990 to 2013, as shown in Figure 1 below.

Figure 1: Growth in Number of Healthcare Covered Workers from 1990 to 2013
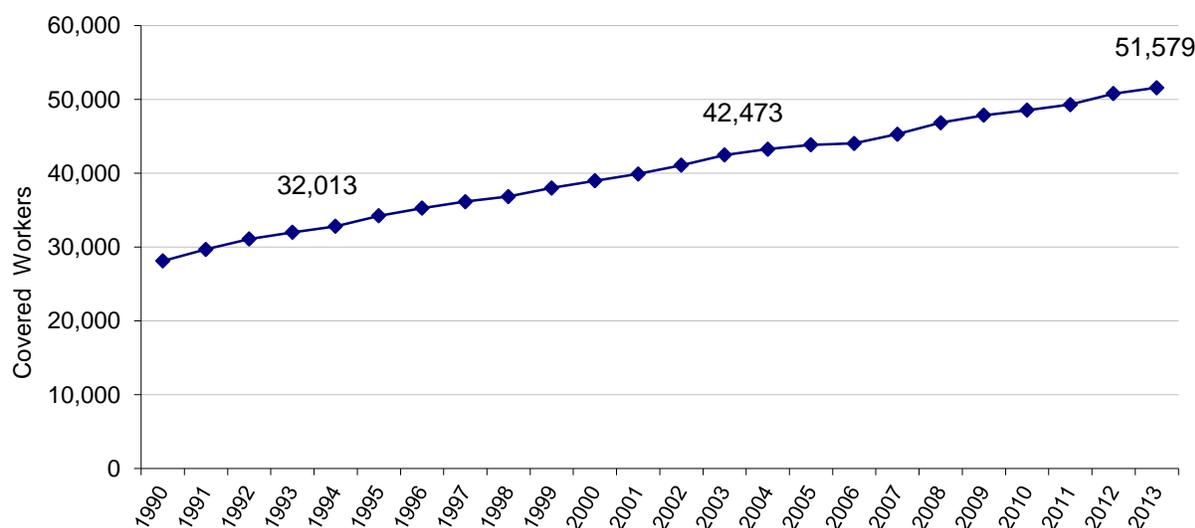
Source: Labor Market Information Center, South Dakota Department of Labor and Regulation [Covered workers includes Ambulatory Health Care Services, Hospitals and Nursing/Residential Care Facilities]

Healthcare occupations that provide direct health care services are among the fastest growing professions in South Dakota and are projected to make up approximately 14% of the state's projected new jobs between 2012 and 2022.

There are many ways to analyze the demand for an occupation. Characteristics of demand include how fast an occupation is projected to grow, how many total job openings are projected through industry growth and the need to replace retiring workers. All of these factors can help evaluate whether an occupation is expected to encounter shortages, but no factor tells the entire story alone.

The South Dakota Department of Labor and Regulation (see Table 1) projections of health occupation needs in the future are consistent with the needs of an aging population.

Figure 2 summarizes fifteen healthcare occupations projected to have the highest change in number of new workers by 2022.

Figure 2: South Dakota Employment Projections 2012-2022 for Health Care Occupations
Top 15: Actual Change
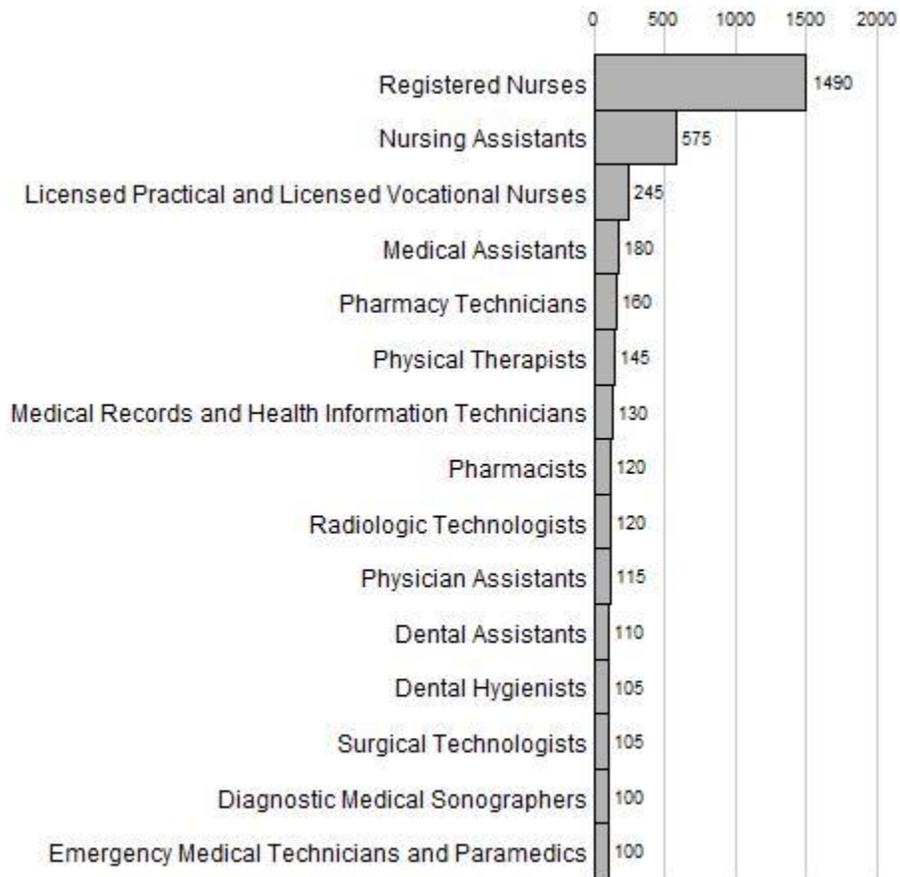
In addition to actual change in number of positions, percent change in number of positions is also a helpful metric to identify emerging occupations which are projected to see growth in the future. A review of the top fifteen occupations to see the largest percent change in positions from 2012-2022 indicates a growth in many of the technical support occupations (Figure 3). Readers are encouraged to look at the percent change along with the projected actual change in positions to obtain a true sense of occupation needs in the future. See Table 1 and Figures 4 and 5 for a comparison of all the health professions for which projection data was available from the South Dakota Department of Labor and Regulation.

Figure 3: South Dakota Employment Projections 2012-2022 for Health Care Occupations
Top 15: Percent Change
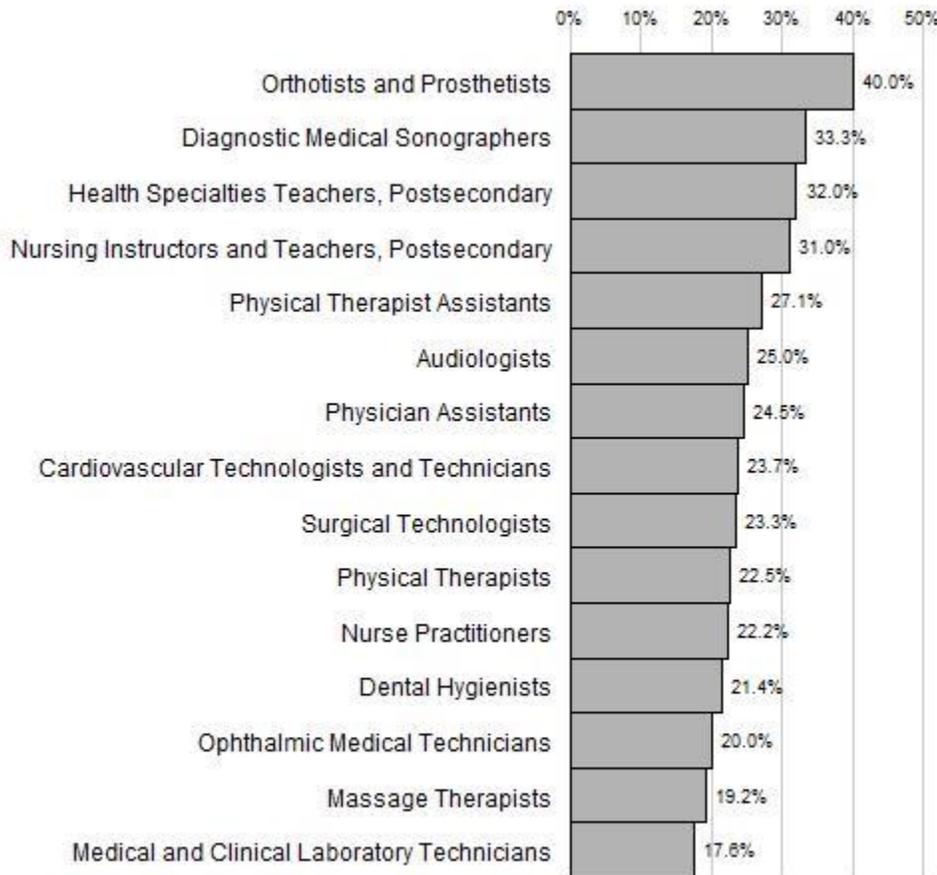
Source: Labor Market Information Center, South Dakota Department of Labor and Regulation, May 2015.

Table 1: South Dakota Employment Projections 2012-2022 for Healthcare Occupations

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Anesthesiologists	30	35	5	16.7%	1
Athletic Trainers	95	100	5	5.3%	4
Audiologists	40	50	10	25.0%	2
Cardiovascular Technologists and Technicians	190	235	45	23.7%	8
Chiropractors	300	320	20	6.7%	8
Dental Assistants	865	975	110	12.7%	29
Dental Hygienists	490	595	105	21.4%	22
Dentists, General	505	540	35	6.9%	15
Diagnostic Medical Sonographers	300	400	100	33.3%	14
Dietitians and Nutritionists	195	215	20	10.3%	4
Emergency Medical Technicians and Paramedics	940	1,040	100	10.6%	36
Family and General Practitioners	500	515	15	3.0%	14
Health Educators	170	190	20	11.8%	6
Health Specialties Teachers, Postsecondary	125	165	40	32.0%	6
Home Health Aides	945	1,030	85	9.0%	27
Internists, General	205	210	5	2.4%	5
Licensed Practical and Licensed Vocational Nurses	2,135	2,380	245	11.5%	76
Magnetic Resonance Imaging Technologists	45	50	5	11.1%	2
Massage Therapists	130	155	25	19.2%	3
Medical and Clinical Laboratory Technicians	370	435	65	17.6%	16
Medical and Clinical Laboratory Technologists	810	865	55	6.8%	27
Medical and Health Services Managers	665	745	80	12.0%	24
Medical Assistants	1,095	1,275	180	16.4%	39
Medical Equipment Preparers	140	160	20	14.3%	5
Medical Records and Health Information Technicians	1,025	1,155	130	12.7%	40
Medical Transcriptionists	785	755	-30	-3.8%	15
Nuclear Medicine Technologists	165	190	25	15.2%	4
Nurse Anesthetists	305	340	35	11.5%	10
Nurse Practitioners	360	440	80	22.2%	15
Nursing Assistants	6,310	6,885	575	9.1%	177
Nursing Instructors and Teachers, Postsecondary	145	190	45	31.0%	6
Obstetricians and Gynecologists	45	45	0	0.0%	1
Occupational Therapists	340	395	55	16.2%	11
Ophthalmic Medical Technicians	50	60	10	20.0%	1
Opticians, Dispensing	460	520	60	13.0%	19
Optometrists	160	180	20	12.5%	7
Orthotists and Prosthetists	25	35	10	40.0%	1
Pediatricians, General	55	55	0	0.0%	1
Pharmacists	1,030	1,150	120	11.7%	37
Pharmacy Aides	30	30	0	0.0%	0
Pharmacy Technicians	1,245	1,405	160	12.9%	28
Phlebotomists	220	245	25	11.4%	7
Physical Therapist Aides	65	75	10	15.4%	3
Physical Therapist Assistants	240	305	65	27.1%	11
Physical Therapists	645	790	145	22.5%	31
Physician Assistants	470	585	115	24.5%	20
Physicians and Surgeons, All Other	545	590	45	8.3%	18
Psychiatrists	20	20	0	0.0%	0
Radiation Therapists	40	45	5	12.5%	1
Radiologic Technologists	955	1,075	120	12.6%	25
Recreational Therapists	35	35	0	0.0%	1
Registered Nurses	11,380	12,870	1,490	13.1%	370
Respiratory Therapists	335	380	45	13.4%	9
Speech-Language Pathologists	405	445	40	9.9%	10
Surgeons	225	250	25	11.1%	9
Surgical Technologists	450	555	105	23.3%	15
Veterinarians	285	295	10	3.5%	10
Veterinary Assistants and Laboratory Animal Caretakers	205	205	0	0.0%	4
Veterinary Technologists and Technicians	275	320	45	16.4%	8

*Source:* Labor Market Information Center, South Dakota Department of Labor and Regulation, May 2015

Figure 4: South Dakota Employment Projections 2012-2022 for Health Care Occupations
Actual Change (From Table 1)

	0	500	1000	1500	2000
Registered Nurses				1490	
Nursing Assistants		575			
Licensed Practical and Licensed Vocational Nurses	245				
Medical Assistants	180				
Pharmacy Technicians	160				
Physical Therapists	145				
Medical Records and Health Information Technicians	130				
Pharmacists	120				
Radiologic Technologists	120				
Physician Assistants	115				
Dental Assistants	110				
Dental Hygienists	105				
Surgical Technologists	105				
Diagnostic Medical Sonographers	100				
Emergency Medical Technicians and Paramedics	100				
Home Health Aides	85				
Medical and Health Services Managers	80				
Nurse Practitioners	80				
Medical and Clinical Laboratory Technicians	65				
Physical Therapist Assistants	65				
Opticians, Dispensing	60				
Occupational Therapists	55				
Medical and Clinical Laboratory Technologists	55				
Nursing Instructors and Teachers, Postsecondary	45				
Physicians and Surgeons, All Other	45				
Respiratory Therapists	45				
Cardiovascular Technologists and Technicians	45				
Health Specialties Teachers, Postsecondary	40				
Speech-Language Pathologists	40				
Dentists, General	35				
Nurse Anesthetists	35				
Surgeons	25				
Nuclear Medicine Technologists	25				
Massage Therapists	25				
Phlebotomists	25				
Health Educators	20				
Chiropractors	20				
Dietitians and Nutritionists	20				
Optometrists	20				
Medical Equipment Preparers	20				
Family and General Practitioners	15				
Audiologists	10				
Ophthalmic Medical Technicians	10				
Orthotists and Prosthetists	10				
Physical Therapist Aides	10				
Anesthesiologists	5				
Internists, General	5				
Radiation Therapists	5				
Magnetic Resonance Imaging Technologists	5				
Obstetricians and Gynecologists	0				
Pediatricians, General	0				
Psychiatrists	0				
Recreational Therapists	0				
Pharmacy Aides	0				
Medical Transcriptionists	-30				

Figure 5: South Dakota Employment Projections 2012-2022 for Health Care Occupations
Percent Change

Occupation	Percent Change
Orthotists and Prosthetists	40.0%
Diagnostic Medical Sonographers	33.3%
Health Specialties Teachers, Postsecondary	32.0%
Nursing Instructors and Teachers, Postsecondary	31.0%
Physical Therapist Assistants	27.1%
Audiologists	25.0%
Physician Assistants	24.5%
Cardiovascular Technologists and Technicians	23.7%
Surgical Technologists	23.3%
Physical Therapists	22.5%
Nurse Practitioners	22.2%
Dental Hygienists	21.4%
Ophthalmic Medical Technicians	20.0%
Massage Therapists	19.2%
Medical and Clinical Laboratory Technicians	17.6%
Anesthesiologists	16.7%
Medical Assistants	16.4%
Occupational Therapists	16.2%
Physical Therapist Aides	15.4%
Nuclear Medicine Technologists	15.2%
Medical Equipment Preparers	14.3%
Respiratory Therapists	13.4%
Registered Nurses	13.1%
Opticians, Dispensing	13.0%
Pharmacy Technicians	12.8%
Dental Assistants	12.7%
Medical Records and Health Information Technicians	12.7%
Radiologic Technologists	12.6%
Optometrists	12.5%
Radiation Therapists	12.5%
Medical and Health Services Managers	12.0%
Health Educators	11.8%
Pharmacists	11.6%
Nurse Anesthetists	11.5%
Licensed Practical and Licensed Vocational Nurses	11.5%
Phlebotomists	11.4%
Surgeons	11.1%
Magnetic Resonance Imaging Technologists	11.1%
Emergency Medical Technicians and Paramedics	10.6%
Dietitians and Nutritionists	10.3%
Speech-Language Pathologists	9.9%
Nursing Assistants	9.1%
Home Health Aides	9.0%
Physicians and Surgeons, All Other	8.3%
Dentists, General	6.9%
Medical and Clinical Laboratory Technologists	6.8%
Chiropractors	6.7%
Family and General Practitioners	3.0%
Internists, General	2.4%
Obstetricians and Gynecologists	0.0%
Pediatricians, General	0.0%
Psychiatrists	0.0%
Recreational Therapists	0.0%
Pharmacy Aides	0.0%
Medical Transcriptionists	-3.6%

Educational Supply

Many of the healthcare occupations included in this report require some level of postsecondary education. Training programs exist in South Dakota for many of the major occupations. Data on program completers summarized in Table 2 was drawn from the South Dakota Board of Regents and Table 3 from the National Center for Educational Statistics' Integrated Postsecondary Education Data System (IPEDS) for private universities, tribal colleges and universities, and postsecondary technical institutes.

Table 2: Selected Health Care Occupations – Degrees Conferred by Public Universities, by year.

Major Description	Univ.	Degree	2010	2011	2012	2013	2014	5-Year Total	5-Year Average
Athletic Training	SDSU	B	12	15	12	19	12	70	14
	SDSU	M	0	4	4	2	6	16	3.2
Audiology	USD	AuD	3	5	2	3	4	17	3.4
Dental Hygiene	USD	A	30	30	31	30	NA	121	24.2
	USD	B	38	27	32	32	33	162	32.4
Dietetics specialization	SDSU	B	14	25	18	13	15	85	17
	SDSU	M	0	0	2	2	3	7	1.4
Health Information Technology	DSU	A	8	8	19	13	15	63	12.6
Health Information Administrator	DSU	B	5	7	11	10	12	45	9
Medical Lab Science	NSU	B	0	0	4	8	3	15	3
Medical Technology Clinical Laboratory Science	SDSU	B	8	10	10	16	12	56	11.2
	USD	B	16	19	22	8	9	74	14.8
Medicine (MD)	USD	MD	46	51	51	53	52	253	50.6
Nursing									
AS Nursing	USD	A	272	278	243	269	268	1330	266
Nursing RN Upward Mobility	SDSU	B	56	57	79	NA	NA	192	38.4
BS Nursing	SDSU	B	229	230	259	348	331	1397	279.4
MS Nursing Total	SDSU	M	43	30	48	21	10	152	30.4
MS Nursing, Family Nurse Practitioner	SDSU	M	32	17	38	*	*	87	17.4
MS Nursing, Neonatal Nurse Practitioner	SDSU	M	1	2	0	*	*	3	0.6
MS Nursing, Psychiatric Nurse Practitioner	SDSU	M	0	3	0	*	*	3	0.6
MS Nursing, Nursing Administrator	SDSU	M	6	2	2	*	*	10	2
MS Nursing, Nursing Educator	SDSU	M	4	6	8	*	*	18	3.6
Occupational Therapy	USD	M	18	22	26	25	24	115	23
Pharmacy	SDSU	PharmD	70	66	69	68	77	350	70
Physical Therapy	USD	M/DPT	26	25	26	35	36	148	29.6
Physician Assistant	USD	B	0	0	0	0	0	0	0
	USD	M	20	20	21	19	19	99	19.8
Respiratory Care Therapy	DSU	A	13	17	19	16	17	82	16.4
	DSU	B	4	3	2	3	3	15	3
Speech-Language Pathology	USD	M	19	25	34	30	21	129	25.8

* Data not available

Table 3: Selected Health Care Occupation Graduates Reported by Private Universities/Other Institutions in South Dakota for the last three academic years, as reported in the National Center for Educational Statistics' Integrated Postsecondary Education Data System (IPEDS).

Discipline Field	Institution	2011	2012	2013	3 Year Total	3 Year Average
Athletic Training	Augustana	2	10	5	17	5.7
	DWU	3	8	6	17	5.7
	NAU-RC	4	3	0	7	2.3
Dental Assistant	Lake Area Tech	49	33	40	122	40.7
Health Information Technology	NAU-SF	1	5	9	15	5.0
Massage Therapy	NAU-SF	13	11	16	40	13.3
	Headlines Academy	24	24	18	66	22.0
	Globe University-SF	17	14	10	41	13.7
Medical/Clinical Assistant	Presentation College	6	6	4	16	5.3
	Colorado Tech	31	25	16	72	24.0
	Lake Area Tech	21	20	14	55	18.3
	Mitchell Tech	15	14	17	46	15.3
	NAU-SF	15	15	7	37	12.3
	Globe University-SF	11	12	12	35	11.7
	West Dak Tech	3	11	13	27	9.0
Clinical/Medical Laboratory Technician	Lake Area Tech	7	13	8	28	9.3
	Mitchell Tech	12	14	17	43	14.3
Clinical Lab Science/Medical Tech	Mount Marty College	2	0	0	2	0.7
Clinical/Med Lab Science & Allied Professionals, Other	Southeast Tech	28	24	16	68	22.7
	West Dak Tech	18	24	19	61	20.3
Nursing (LPN)	Lake Area Tech	64	54	64	182	60.7
	Southeast Tech	96	77	92	265	88.3
	West Dak Tech	47	27	25	99	33.0
	Sinte Gleska	6	11	11	28	9.3
Nursing – Bachelor (RN)	Augustana College	54	46	53	153	51.0
	DWU	10	5	10	25	8.3
	Mount Marty College	25	41	30	96	32.0
	NAU-RC	15	10	5	30	10.0
	NAU-SF	3	0	3	6	2.0
	Presentation College	56	55	56	167	55.7
	U of Sioux Falls	13	34	64	111	37.0
Nursing – Associate (RN)	DWU	64	54	47	165	55.0
	Oglala Lakota	12	11	10	33	11.0
	Presentation College	11	16	6	33	11.0
	Sisseton Wahpeton	15	11	10	36	12.0
Nurse Anesthetist (CRNA)	Mount Marty College	37	37	32	106	35.3
Occupational Therapy Assistants	Lake Area Tech	17	17	16	50	16.7
Pharmacy Technician	NAU-SF	12	7	6	25	8.3
	Southeast Tech	25	13	28	66	22.0
	West Dak Tech	32	25	16	73	24.3
Physical Therapy Assistants	Lake Area Tech	17	20	23	60	20.0
Radiological Technology/Technician Medical Radiological Technology Science-Radiation Therapist	Presentation College	8	22	14	44	14.7
	MTI	16	12	11	39	13.0
	Avera Sacred Heart	5	6	6	17	5.7
	Sanford	28	27	14	69	23.0
	Avera McKennan	10	0	0	10	3.3
	Mount Marty College	8	8	10	26	8.7
	U of Sioux Falls	10	0	0	10	3.3

Profiles
For Individual Occupations

Data Sources

In addition to employment projection data provided by the South Dakota Department of Labor and Regulation, data from the licensing and certification boards was also obtained. The intent of collecting information from the licensing and certification boards was to expand upon the South Dakota Department of Labor and Regulation data by providing a summation of the current licensed/certified workforce using geographic and age descriptors.

Individual occupational profile descriptions were adapted from The Integrated Postsecondary Education Data System's Classification of Instructional Programs.

Table 4: Professional Licensing Boards and Professions Data Sources

Professional Licensing Board	Professions
South Dakota Board of Chiropractic Examiners	• Chiropractors
South Dakota Board of Dentistry	• Dentists • Dental Assistants • Dental Hygienists
South Dakota Board of Massage Therapy	• Massage Therapists
South Dakota Board of Medical and Osteopathic Examiners	• Athletic Trainers • Dietitians and Nutritionists • Emergency Medical Technicians & Paramedics • Medical Assistants • Occupational Therapists • Occupational Therapist Assistants • Physical Therapists • Physical Therapist Assistants • Physicians • Physician Assistants • Respiratory Therapists
South Dakota Board of Nursing	• Certified Nurse Practitioners (CNPs) • Licensed Practical Nurses (LPNs) • Nurse Anesthetists (CRNAs) • Registered Nurses (RNs)
South Dakota Board of Optometry	• Optometrists
South Dakota Board of Pharmacy	• Pharmacists

Geographic Distribution

The distribution of providers was examined by regions. The map of South Dakota illustrates the population distribution and the seven regions.

Region	Counties
Region 1	Aurora, Brule, Bon Homme, Buffalo, Charles Mix, Clay, Davison, Douglas, Hanson, Hutchinson, McCook, Turner, Union, Yankton
Region 2	Minnehaha, Lincoln
Region 3	Beadle, Brookings, Clark, Codington, Deuel, Grant, Hamlin, Hand, Jerauld, Kingsbury, Lake, Miner, Moody, Sanborn
Region 4	Butte, Corson, Dewey, Harding, Lawrence, Meade, Perkins, Ziebach
Region 5	Brown, Campbell, Day, Edmunds, Faulk, Marshall, McPherson, Roberts, Spink, Walworth
Region 6	Bennett, Gregory, Haakon, Hughes, Hyde, Jackson, Jones, Lyman, Mellette, Potter, Stanley, Sully, Tripp, Todd
Region 7	Custer, Fall River, Pennington, Shannon

Each dot represents approximately 100 people
Each dot randomly placed within its 2010 US Census Tract
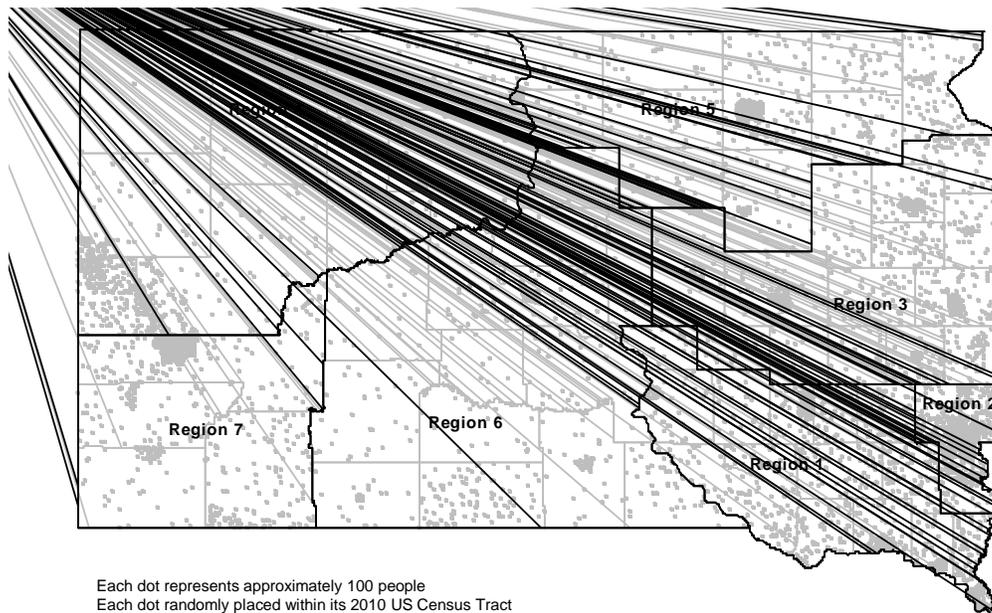
Athletic Trainers

Description: A program that prepares individuals to work in consultation with, and under the supervision of physicians to prevent and treat sports injuries and associated conditions. Includes instruction in the identification, evaluation, and treatment of athletic injuries and illnesses; first aid and emergency care; therapeutic exercise; anatomy and physiology; exercise physiology; kinesiology and biomechanics; nutrition; sports psychology; personal and community health; knowledge of various sports and their biomechanical and physiological demands; and applicable professional standards and regulations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that South Dakota will need an average of 4 new athletic trainers per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Athletic Trainers	95	100	5	5.3%	4

Current Workforce Information: The statewide median age of Athletic Trainers is 32 years and 12.2% of trainers are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	38	34.3	8.6	34	10.5	0.0
2	76	36.0	10.0	34	17.1	1.3
3	36	31.8	7.1	30	8.3	0.0
4	13	36.1	8.9	36	23.1	0.0
5	20	32.6	7.3	30	10.0	0.0
6	4	33.0	14.8	26	25.0	0.0
7	13	32.3	6.8	31	0.0	0.0
Not SD*	30	31.2	7.5	30	6.7	0.0
Total	230	33.9	8.8	32	12.2	0.4

*Licensure/certification data included individuals with addresses not located in South Dakota.

Athletic Trainers: Age on 1/1/2015
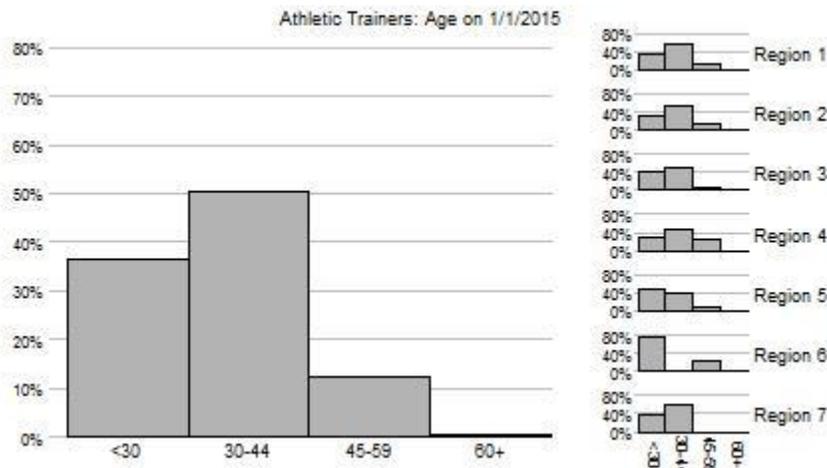
Supply: During the 2012-2013 academic year, there were 32 graduates reported from Athletic Trainer programs in South Dakota. During the 2013-2014 academic year, there were 18 graduates reported from Athletic Trainer programs in South Dakota under the Board of Regents schools. Data was not yet available for non-Board of Regents schools for 2014.

Audiologists

Description: A program that prepares individuals to diagnose and treat hearing loss and other disorders involving the ear, advise patients on means to use their remaining hearing, and select and fit hearing aids and other devices. Includes instruction in acoustics, anatomy and physiology of hearing, hearing measurement, auditory pathology, middle and inner ear analysis, rehabilitation therapies and assistive technologies, and pediatric and other special applications.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 2 Audiologists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Audiologists	40	50	10	25.0%	2

Current Workforce Information: Information on the current Audiology workforce was not available at time of report completion.

Supply: During the 2013-2014 academic year there were 4 graduates reported from Audiology programs in South Dakota.

Certified Nurse Practitioners (CNPs)

Description: CNPs are advanced practice registered nurses that work in a variety of settings, such as hospitals and clinics. They are educationally prepared to assess, diagnose and manage patient problems, order tests and prescribe medications. Their advanced education, knowledge, and skills prepare them to care for specific populations of patients, including adults, families, children and infants. South Dakota licenses CNPs in the following population focus areas: Acute, Adult-Gero, Family, Neonatal, Pediatric, Psych-Mental Health, and Women's Health nurse practitioners.

Demand: Employment projection data specific for Certified Nurse Practitioners was not included in the South Dakota Department of Labor and Regulation projections.

Current Workforce Information: The statewide median age of Certified Nurse Practitioners (CNPs) is 45 years and 50.2% of CNPs are age 45 or older. The percent of CNPs age 45 and older is 40% or higher in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	65	44.6	11.9	43	46.2	13.8
2	227	42.7	10.5	40	40.1	7.5
3	57	45.5	11.9	44	49.1	14.0
4	43	52.3	10.3	55	76.7	32.6
5	30	46.2	10.5	48	56.7	10.0
6	28	47.4	10.9	47	57.1	17.9
7	105	49.9	11.2	53	67.6	20.0
Not SD*	102	44.1	10.5	42	43.1	6.9
Total	657	45.5	11.2	45	50.2	12.8

*Licensure/certification data included individuals with addresses not located in South Dakota.

Certified Nurse Practitioners: Age on 1/1/2015
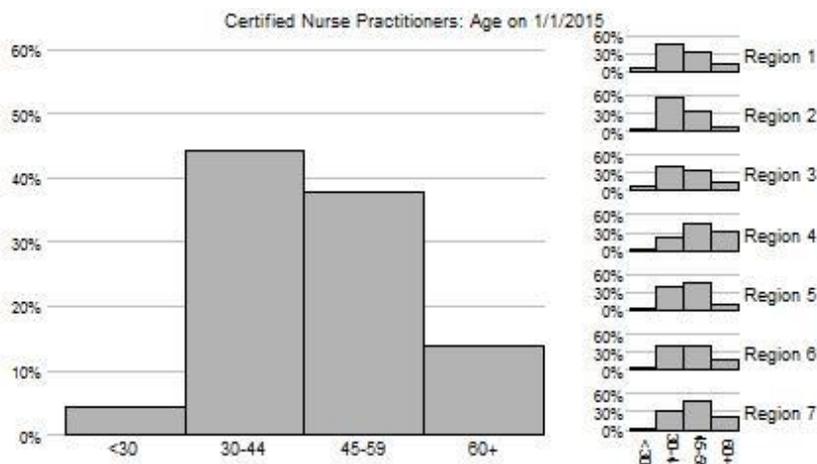
Supply: During the 2011-2012 academic year there were 38 graduates from CNP programs in South Dakota (includes Family Nurse Practitioners (38), Neonatal Nurse Practitioners (0), and Psych-Mental Health Nurse Practitioners (0)). Data was not available for the 2013 and 2014 school years for CNP programs through BOR Dashboard. For more information on the nursing workforce please refer to the South Dakota Board of Nursing reports located at: http://doh.sd.gov/Boards/Nursing/RandP.aspx

Chiropractors

Description: A program that prepares individuals for the independent professional practice of chiropractic, a health care and healing system based on the application of non-invasive treatments and spinal adjustments to alleviate health problems caused by vertebral misalignments affecting bodily function as derived from the philosophy of Daniel Palmer. Includes instruction in the basic medical sciences, chiropractic theory and science, postural and spinal analysis, diagnostic radiology and ultrasound, adjustment technique, patient counseling, professional standards and ethics, and practice management.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 8 new Chiropractors per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Chiropractors	300	320	20	6.7%	8

Current Workforce Information: The statewide median age of Chiropractors is 41 years and 37.7% of Chiropractors are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	71	46.2	11.0	44	46.5	19.7
2	132	40.6	11.4	38	25.8	6.1
3	58	43.5	11.0	42	39.7	5.2
4	31	41.0	13.5	37	32.3	9.7
5	29	45.9	13.3	45	51.7	17.2
6	17	46.7	11.9	44	47.1	11.8
7	58	44.1	12.0	42	44.8	12.1
Not SD*	15	42.2	12.5	43	40.0	0.0
Total	411	43.2	11.9	41	37.7	10.2

*Licensure/certification data included individuals with addresses not located in South Dakota.

Chiropractors: Age on 1/1/2015
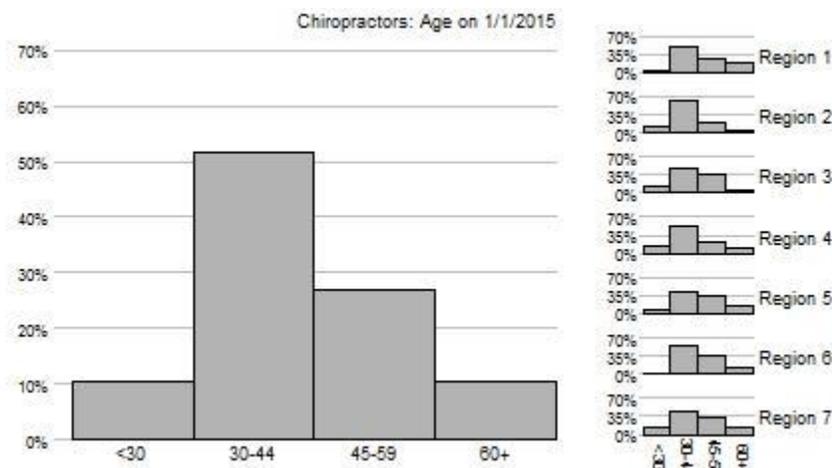
Supply: There are currently no Chiropractic education programs in South Dakota.

Advanced Dental Assistants

Description: A program that prepares individuals to provide patient care, take dental radiographs (x-ray photographs), prepare patients and equipment for dental procedures, and discharge office administrative functions under the supervision of dentists and dental hygienists. Includes instruction in medical record-keeping, general office duties, reception and patient intake, scheduling, equipment maintenance and sterilization, basic radiography, pre- and post-operative patient care and instruction, chairside assisting, taking tooth and mouth impressions, and supervised practice.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 29 new Dental Assistants per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Advanced Dental Assistants	865	975	110	12.7%	29

* The Department of Labor statistics does not distinguish between a dental assistant and an advanced dental assistance.

Current Workforce Information: The statewide median age of Advanced Dental Assistants is 34 years. The percent of Advanced Dental Assistants age 45 and older is 29.3%.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	75	37.5	11.5	35.0	26.7	1.3
2	263	37.4	12.2	35.0	31.9	3.8
3	139	35.2	11.9	32.0	23.7	3.6
4	49	41.1	11.7	41.0	36.7	6.1
5	52	33.4	10.9	30.0	21.6	3.9
6	39	36.4	14.3	30.0	30.8	5.1
7	125	39.8	11.7	39.0	36.8	5.6
SD Region Unknown	7	32.1	10.7	27.0	14.3	0.0
Not SD*	60	33.6	11.5	30.0	20.0	3.3
Total	809	37.0	12.1	34.0	29.3	4.0

*Licensure/certification data included individuals with addresses not located in South Dakota. Data above includes advanced dental assistants only.

Advanced Dental Assistants: Age on 1/1/2015
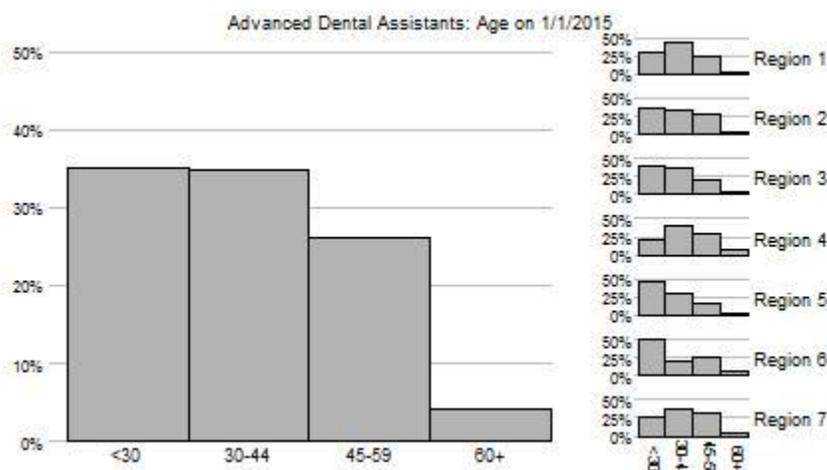
Supply: During the 2012-2013 academic year, there were 40 graduates reported from Advanced Dental Assistant programs in South Dakota.

Dental Hygienists

Description: A program that prepares individuals to clean teeth and apply preventive materials, provide oral health education and treatment counseling to patients, identify oral pathologies and injuries, and manage dental hygiene practices. Includes instruction in dental anatomy, microbiology, and pathology; dental hygiene theory and techniques; cleaning equipment operation and maintenance; dental materials; radiology; patient education and counseling; office management; supervised clinical training; and professional standards.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 22 new Dental Hygienists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Dental Hygienists	490	595	105	21.4%	22

Current Workforce Information: The statewide median age of Dental Hygienists is 37 years and 33.6% of Dental Hygienists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	104	41.6	13.4	39	41.3	10.6
2	207	38.2	10.6	36	27.5	2.4
3	72	37.9	10.9	36	29.2	1.4
4	43	40.8	12.0	38	37.2	7.0
5	41	39.3	12.7	34	41.5	4.9
6	34	41.1	13.3	39	38.2	8.8
7	99	41.6	12.0	40	38.4	11.1
SD, Reg Unk	5	39.2	15.8	35	40.0	20.0
Not SD*	136	38.1	12.5	35	31.1	6.7
Total	741	39.4	12.0	37	33.6	6.2

*Licensure/certification data included individuals with addresses not located in South Dakota.

Dental Hygienists: Age on 1/1/2015
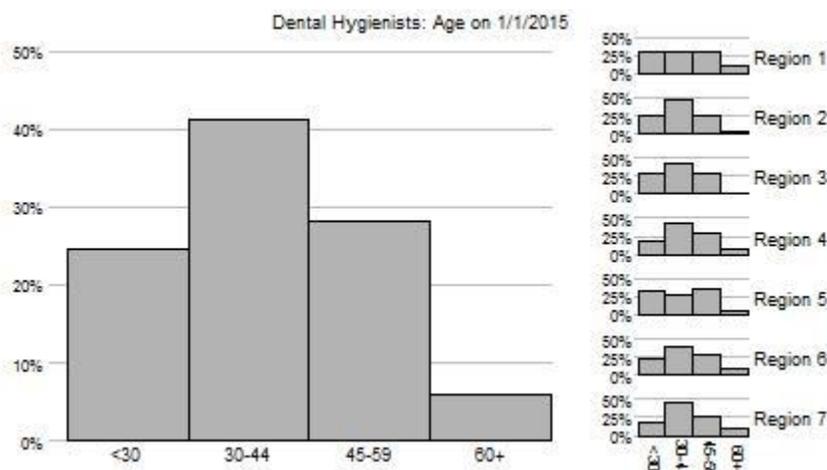
Supply: During the 2013-2014 academic year, there were 33 baccalaureate degree program graduates reported from the Dental Hygiene programs in South Dakota.

Dentists

Description: A program that prepares individuals for the independent professional practice of dentistry/dental medicine, encompassing the evaluation, diagnosis, prevention, and treatment of diseases, disorders, and conditions of the oral cavity, maxillofacial area, and adjacent structures and their impact on the human body and health. Includes instruction in the basic biomedical sciences, occlusion, dental health and prevention, oral pathology, cardiology, operative dentistry, oral radiology, principles of the various dental specialties, pain management, oral medicine, clinic and health care management, patient counseling, and professional standards and ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 15 new Dentists (General) per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Dentists, General	505	540	35	6.9%	15

Current Workforce Information: The statewide median age of Dentists is 49 years and 55.4% of Dentists are age 45 or older. The percent of Dentists age 45 and older is greater than 45% in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	69	47.9	14.6	45	53.6	24.6
2	144	47.1	13.5	45	50.7	22.2
3	69	49.0	15.2	48	52.2	39.1
4	25	48.6	13.4	46	56.0	36.0
5	32	54.5	13.9	56	75.0	37.5
6	30	46.5	16.7	38	46.7	30.0
7	95	50.8	12.4	54	60.0	31.6
Not SD*	92	48.4	13.9	50	57.6	26.1
Total	556	48.7	14.0	49	55.4	28.8

*Licensure/certification data included individuals with addresses not located in South Dakota.

Dentists: Age on 1/1/2015
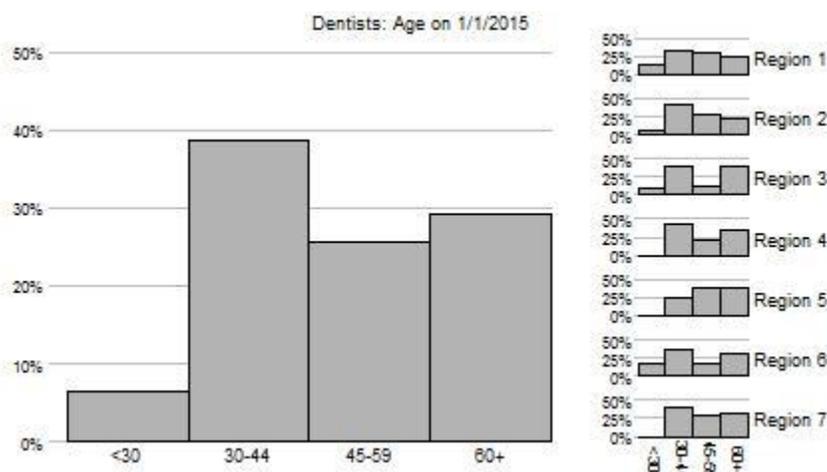
Supply: There are currently no Dental programs in South Dakota.

Dietitians and Nutritionists

Description:
Dietitians A program that prepares individuals to integrate and apply the principles of the food and nutrition sciences, human behavior, and the biomedical sciences to design and manage effective nutrition programs in a variety of settings. Includes instruction in human nutrition; nutrient metabolism; the role of foods and nutrition in health promotion and disease prevention; planning and directing food service activities; diet and nutrition analysis and planning; supervision of food storage and preparation; client education; and professional standards and regulations.

Nutritionists A program that focuses on the relationships between food consumption and human development and health. Includes instruction in the cellular and molecular processes of food processing in the human body, related metabolic processes, the relationship of food and nutrition to disease, and nutritional needs across the life span.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 4 new Dietitians and Nutritionists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Dietitians and Nutritionists	195	215	20	10.3%	4

Current Workforce Information: The statewide median age of Dietitians and Nutritionists is 43 years and 46.2% of Dietitians and Nutritionists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	34	43.9	15.3	42	47.1	11.8
2	103	43.4	12.0	41	39.8	14.6
3	35	42.3	14.6	41	37.1	17.1
4	17	43.9	12.2	47	52.9	5.9
5	16	44.1	12.5	43	50.0	12.5
6	12	47.6	18.8	50	50.0	41.7
7	42	47.5	12.6	52	64.3	19.0
Not SD*	59	44.3	13.3	43	45.8	10.2
Total	318	44.3	13.3	43	46.2	14.8

*Licensure/certification data included individuals with addresses not located in South Dakota.

Dietitians and Nutritionists: Age on 1/1/2015
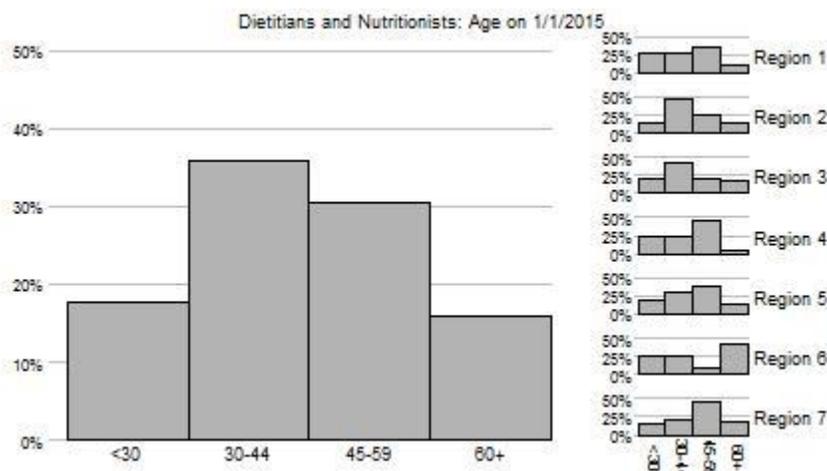
Supply: During the 2013-2014 academic year, there were 15 baccalaureate degree program graduates and 3 Master degree program graduates reported from Dietetics and Nutritional programs in South Dakota.

Emergency Medical Technicians (EMT) and Paramedics

Description: A program that prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in pre-hospital settings and to supervise Ambulance personnel. Includes instruction in basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 36 new EMTs and Paramedics per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Emergency Medical Technicians and Paramedics	940	1,040	100	10.6%	36

The Workforce and Supply information for Emergency Medical Technicians and Paramedics is separated below.

EMT Current Workforce Information: The statewide median age of EMTs is 49 years and 61.5% of EMTs are age 45 or older. The percent of EMTs age 45 and older is greater or equal to 50% in six out of the seven regions of the state.

EMTs Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	24	48.4	12.9	50	79.2	20.8
2	10	41.3	10.4	40	30.0	0.0
3	11	53.9	15.4	57	81.8	45.5
4	56	44.6	12.9	46	53.6	10.7
5	19	51.8	11.4	53	68.4	26.3
6	35	51.0	10.6	52	74.3	20.0
7	54	45.9	12.7	48	55.6	18.5
Not SD*	12	47.4	10.6	44	50.0	16.7
Total	221	47.4	12.5	49	61.5	18.1

*Licensure/certification data included individuals with addresses not located in South Dakota.


Emergency Medical Technicians: Age on 1/1/2015
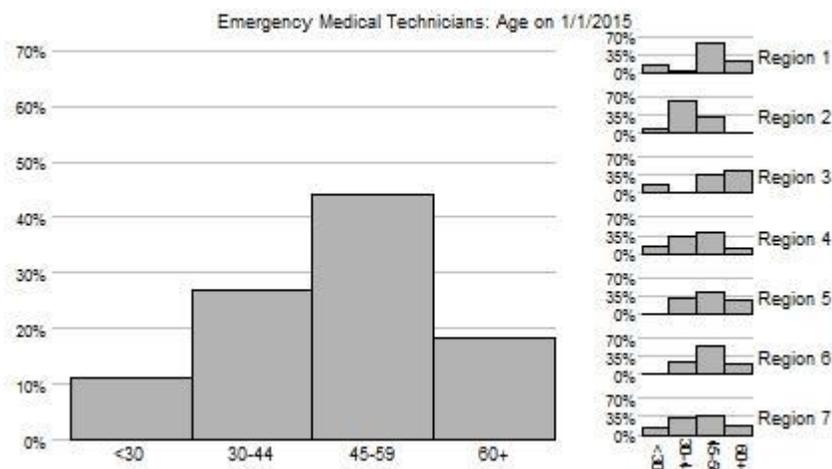
Paramedics Current Workforce Information: The statewide median age of Paramedics is 37 years and 30.6% of Paramedics are age 45 or older.

Paramedics Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	47	41.2	12.1	42	40.4	8.5
2	128	38.9	10.0	37	32.8	2.3
3	69	39.9	12.3	40	37.7	8.7
4	45	41.1	12.1	41	35.6	11.1
5	50	35.6	10.6	34	16.0	4.0
6	25	42.3	13.6	41	40.0	12
7	108	37.5	9.8	34	25.0	1.9
Not SD*	122	38.7	9.6	38	27.9	2.5
Total	594	38.9	10.8	37	30.6	4.7

*Licensure/certification data included individuals with addresses not located in South Dakota.

Paramedics: Age on 1/1/2015
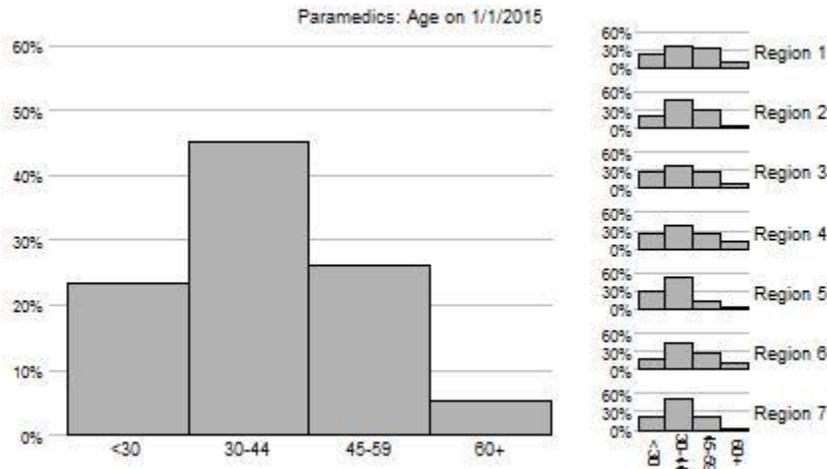
Supply: Training for EMTs and Paramedics is provided through hospital and community education programs located throughout the state.

Health Information Administrators

Description: A program that prepares individuals to plan, design, and manage systems, processes, and facilities used to collect, store, secure, retrieve, analyze, and transmit medical records and other health information used by clinical professionals and health care organizations. Includes instruction in the principles and basic content of the biomedical and clinical sciences, information technology and applications, data and database management, clinical research methodologies, health information resources and systems, office management, legal requirements, and professional standards.

Demand: The South Dakota Department of Labor and Regulation data does not include updated projections specific to Health Information Administrators for the 2012 to 2022 timeframe.

Current Workforce Information: Information on the current Health Information Administrator workforce was not available at time of report completion.

Supply: During the 2013-2014 academic year there were 12 graduates reported from Health Information Administrator programs in South Dakota.

Licensed Practical Nurses (LPNs)

Description: LPNs are individuals that assist in providing general nursing care under the supervision of a registered nurse, physician or dentist. LPNs perform nursing care, treatments, and observations for individuals. LPNs may assist with health counseling and teaching, and administration and delegation of medications.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 76 Licensed Practical Nurses per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Licensed Practical Nurses	2,135	2,380	245	11.5%	76

Current Workforce Information: The statewide median age of Licensed Practical Nurses is 46 years and 51.4% of Licensed Practical Nurses are age 45 or older. The percent of Licensed Practical Nurses age 45 and older is greater than 50% in five of the seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	296	47.5	13.9	51	60.8	23.6
2	733	42.2	15.0	39	43.0	18.0
3	381	43.5	14.8	43	49.1	17.3
4	190	46.5	13.8	49	56.3	22.6
5	245	46.6	14.9	49	55.5	24.5
6	122	50.2	13.9	54	65.6	30.3
7	359	46.2	13.5	48	54.0	19.8
Not SD*	158	44.4	13.9	44	50.0	17.1
Total	2484	44.9	14.6	46	51.4	20.4

*Licensure/certification data included individuals with addresses not located in South Dakota.

Licensed Practical Nurses: Age on 1/1/2015
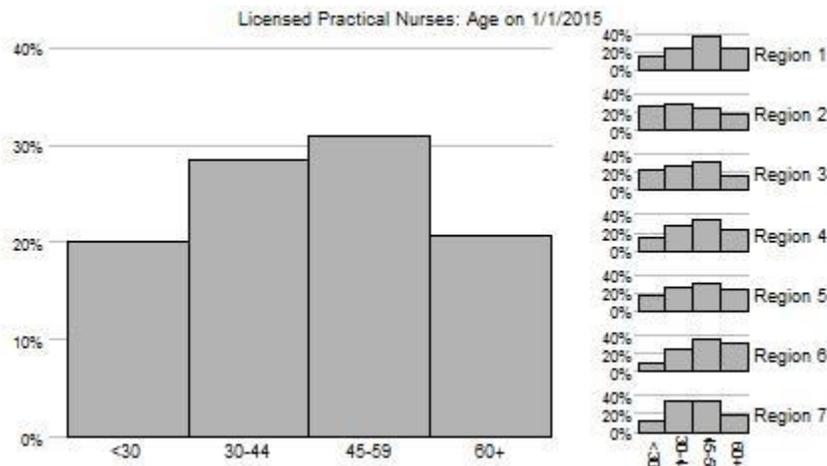
Supply: During the 2012-2013 academic year, there were 192 individuals who completed Licensed Practical Nurse programs. (See Table 3). For more information on the nursing workforce please refer to the South Dakota Board of Nursing reports located at: http://doh.sd.gov/Boards/Nursing/RandP.aspx

Massage Therapists

Description: A program that prepares individuals to provide relief and improved health and well-being to clients through the application of manual techniques for manipulating skin, muscles, and connective tissues. Includes instruction in Western (Swedish) massage, sports massage, myotherapy/trigger point massage, myofascial release, deep tissue massage, cranio-sacral therapy, reflexology, massage safety and emergency management, client counseling, practice management, applicable regulations, and professional standards and ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 3 new Massage Therapists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Massage Therapists	130	155	25	19.2%	3

Current Workforce Information: The statewide median age of Massage Therapists is 39 years and 39.1% of Massage Therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	89	44.6	13.9	42	44.9	16.9
2	210	39.1	12.7	36	31.9	7.6
3	81	41.8	12.9	39	37.0	9.9
4	67	42.6	13.5	41	44.8	13.4
5	76	43.6	15.0	39	42.1	21.1
6	29	44.2	17.4	40	37.9	13.8
7	145	43.9	13.5	41	46.9	20.7
8	3	42.7	18.4	38	33.3	33.3
Not SD*	103	39.4	14.1	34	34.0	13.6
Total	803	41.8	13.8	39	39.1	14.1

*Licensure/certification data included individuals with addresses not located in South Dakota.

Massage Therapists: Age on 1/1/2015
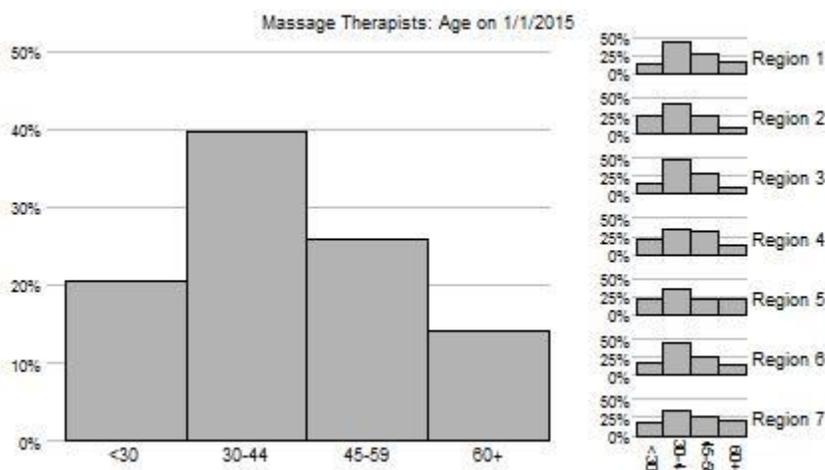
Supply: During the 2012-2013 academic year, there were 44 graduates reported from Massage Therapy programs in South Dakota.

Medical and Clinical Laboratory Technicians

Description: A program that prepares individuals, under the supervision of clinical laboratory scientists/medical technologists, to perform routine medical laboratory procedures and tests and to apply preset strategies to record and analyze data. Includes instruction in general laboratory procedures and skills; laboratory mathematics; medical computer applications; interpersonal and communications skills; and the basic principles of hematology, medical microbiology, immunohematology, immunology, clinical chemistry, and urinalysis.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 16 new Medical and Clinical Laboratory Technicians per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Medical and Clinical Laboratory Technicians	370	435	65	17.6%	16

Current Workforce Information: Information on the age and geographic distribution of the current Clinical/Medical Laboratory Technician workforce is not currently available.

Supply: During the 2013-2014 academic year, there were 25 graduates reported from Medical and Clinical Laboratory Technician programs in South Dakota.

Medical and Clinical Laboratory Technologists

Description: A program that prepares individuals to conduct and supervise complex medical tests, clinical trials, and research experiments; manage clinical laboratories; and consult with physicians and clinical researchers on diagnoses, disease causation and spread, and research outcomes. Includes instruction in the theory and practice of hematology, clinical chemistry, microbiology, immunology, immunohematology, physiological relationships to test results, laboratory procedures and quality assurance controls, test and research design and implementation, analytic techniques, laboratory management, data development and reporting, medical informatics, and professional standards and regulations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 27 new Medical and Clinical Laboratory Technologists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Medical and Clinical Laboratory Technologists	810	865	55	6.8%	27

Current Workforce Information: Information on the age and geographic distribution of the current Medical and Clinical Laboratory Technologists workforce is not currently available.

Supply: During the 2013-2014 academic year, there were 24 graduates reported from Medical and Clinical Laboratory Technologist programs in South Dakota under the Board of Regents schools. Data was not yet available for non-Board of Regents schools for 2014 academic year.

Medical Assistants

Description: A program that prepares individuals, under the supervision of physicians, to provide medical office administrative services and perform clinical duties including patient intake and care, routine diagnostic and recording procedures, pre-examination and examination assistance, and the administration of medications and first aid. Includes instruction in basic anatomy and physiology; medical terminology; medical law and ethics; patient psychology and communications; medical office procedures; and clinical diagnostic, examination, testing, and treatment procedures.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 39 new Medical Assistants per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Medical Assistants	1,095	1,275	180	16.4%	39

Current Workforce Information: The statewide median age of Medical Assistants is 35 years and 28.1% of Medical Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	98	36.4	11.7	34	22.4	4.1
2	224	38.0	11.5	34	27.4	4.9
3	89	38.0	13.0	34	29.2	10.1
4	31	40.8	12.1	35	35.5	6.5
5	56	38.8	12.1	36	28.6	3.6
6	16	41.2	16.0	42	50.0	12.5
7	53	39.8	12.5	38	30.2	5.7
Not SD*	67	36.3	10.8	33	26.9	0.0
Total	634	38.0	12.0	35	28.1	5.2

*Licensure/certification data included individuals with addresses not located in South Dakota.

Medical Assistants: Age on 1/1/2015
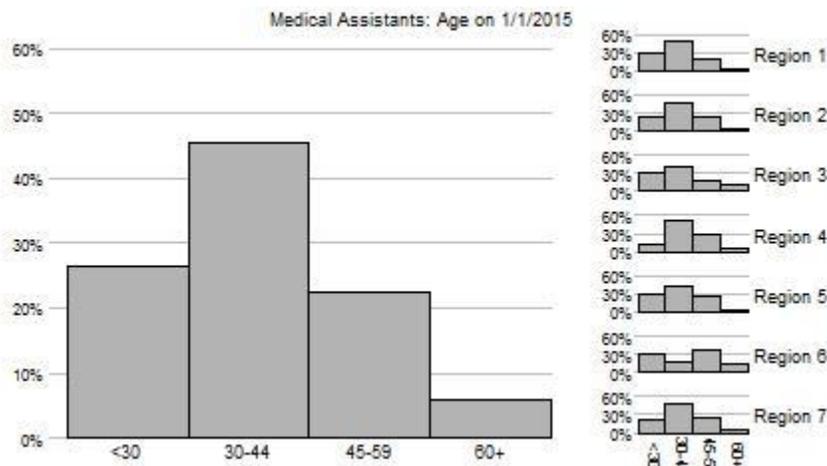
Supply: During the 2012-2013 academic year, there were 83 program completers reported from Medical Assistant programs in the state.

Medical Records and Health Information Technicians

Description: A program that prepares individuals, under the supervision of health information administrators and other professionals, to construct medical records and clinical databases, perform manipulations on retrieved data, control the security and quality of records, and supervise data entry and technical maintenance personnel. Includes instruction in clinical and biomedical science data and information requirements, database management, data coding and validation, information security, quality control, health information content and structure, medical business procedures, and legal requirements.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 40 new Health Information Technicians per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Medical Records and Health Information Technicians	1,025	1,155	130	12.7%	40

Current Workforce Information: Information on the age and geographic distribution of the current Health Information Technician workforce is not currently available.

Supply: During the 2013-2014 academic year, there were 15 graduates reported from Health Information Technology programs in South Dakota under the Board of Regents schools. Data was not yet available for non-Board of Regents schools for 2014.

Nurse Anesthetists (CRNAs)

Description: CRNAs are advanced practice registered nurses that work in hospital operating rooms and out-patient surgical settings. Their advanced education in pharmacology, assessment, and pathophysiology prepares them to manage patients before, during and after anesthesia including assessing and administering anesthetic medications, managing pain, and intervening in emergency patient situations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 10 new Nurse Anesthetists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Nurse Anesthetists	305	340	35	11.5%	10

Current Workforce Information: The statewide median age of CRNAs is 48 years and 56.6% of CRNAs are age 45 or older. The percent of CRNAs age 45 and older is greater than 50% in five out of the seven regions of the state.

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	46	50.5	12.8	52	63.0	37.0
2	162	45.3	10.0	43	43.8	12.3
3	20	47.1	10.9	44	45.0	15.0
4	24	50.3	11.2	52	70.8	20.8
5	18	48.4	11.7	49	61.1	16.7
6	10	52.2	14.5	54	70.0	50.0
7	61	50.5	11.5	48	60.7	31.1
Not SD*	99	50.8	11.1	53	68.7	27.3
Total	440	48.4	11.3	48	56.6	22.5

*Licensure/certification data included individuals with addresses not located in South Dakota.

Nurse Anesthetists: Age on 1/1/2015
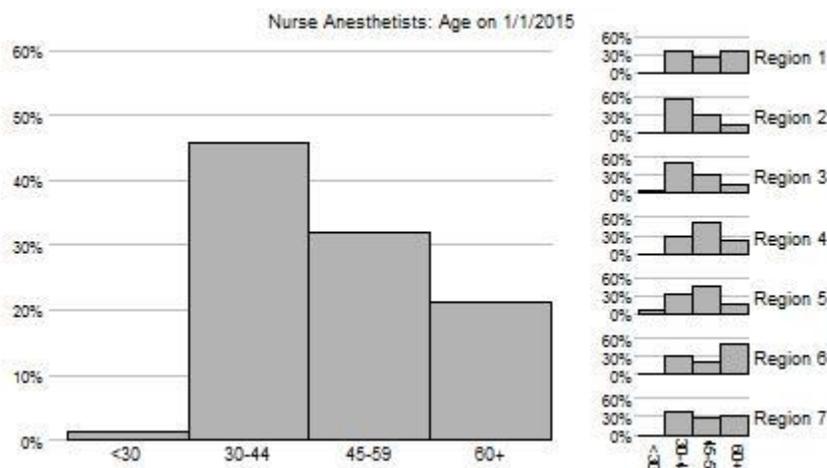
Supply: During the 2012-2013 academic year, there were 32 graduates from the CRNA program in South Dakota. For more information on the nursing workforce please refer to the South Dakota Board of Nursing reports located at: http://doh.sd.gov/Boards/Nursing/RandP.aspx

Occupational Therapists

Description: A program that prepares individuals to assist patients limited by physical, cognitive, psychosocial, mental, developmental, and learning disabilities, as well as adverse environmental conditions, to maximize their independence and maintain optimum health through a planned mix of acquired skills, performance motivation, environmental adaptations, assistive technologies, and physical agents. Includes instruction in the basic medical sciences, psychology, sociology, patient assessment and evaluation, standardized and non-standardized tests and measurements, assistive and rehabilitative technologies, ergonomics, environmental health, special education, vocational counseling, health education and promotion, and professional standards and ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 11 Occupational Therapists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Occupational Therapists	340	395	55	16.2%	11

Current Workforce Information: The statewide median age of Occupational Therapists is 40 years and 33.6% of Occupational Therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	66	39.6	9.2	41	28.8	1.5
2	161	40.1	9.2	40	34.8	1.9
3	35	41.1	11.6	41	34.3	8.6
4	25	43.9	12.1	42	36.0	16.0
5	36	42.5	12.1	41	38.9	13.9
6	12	39.2	11.3	37	25.0	8.3
7	60	40.7	11.0	40	38.3	6.7
Not SD*	69	39.7	10.3	40	29.0	4.3
Total	464	40.5	10.2	40	33.6	5.2

*Licensure/certification data included individuals with addresses not located in South Dakota.

Occupational Therapists: Age on 1/1/2015
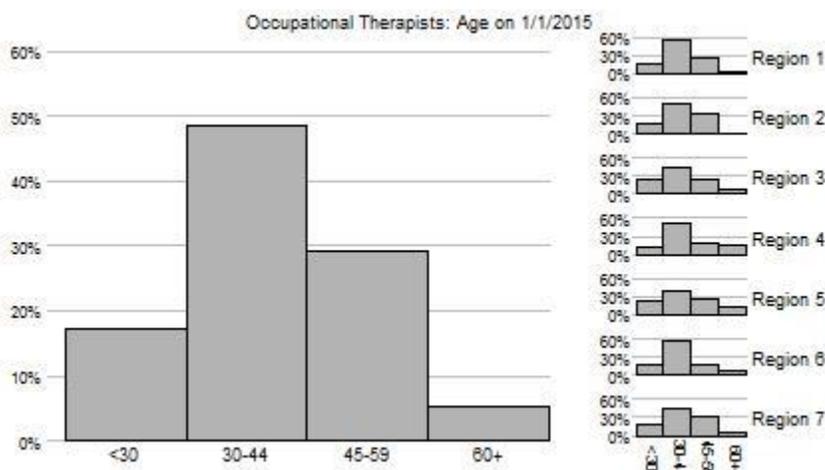
Supply: During the 2013-2014 academic year, there were 24 graduates reported from the Occupational Therapy programs in South Dakota.

Occupational Therapist Assistants

Description: A program that prepares individuals, under the supervision of occupational therapists, to direct patient participation in skill-enhancing, learning, and motivational tasks; correct or diminish pathologies; and to provide direct health education and promotion services. Includes instruction in human life span development, occupational therapy principles and practice skills, treatment planning and implementation, record-keeping and documentation, patient education and intervention, activity and program direction, and assistive services management.

Demand: The South Dakota Department of Labor and Regulation data does not include projections specific to Occupational Therapist Assistants.

Current Workforce Information: The statewide median age of Occupational Therapist Assistants is 33 years and 21% of Occupational Therapist Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	15	40.1	11.7	41	40.0	0.0
2	23	36.2	9.2	34	13.0	0.0
3	39	33.3	11.3	30	17.9	2.6
4	8	44.4	11.7	46	50.0	12.5
5	30	32.9	11.4	27	20.0	3.3
6	9	35.6	10.0	32	22.2	0.0
7	13	34.9	13.2	32	15.4	7.7
Not SD*	20	36.0	11.3	37	15.0	0.0
Total	157	35.5	11.3	33	21	2.5

*Licensure/certification data included individuals with addresses not located in South Dakota.

Occupational Therapist Assistants: Age on 1/1/2015
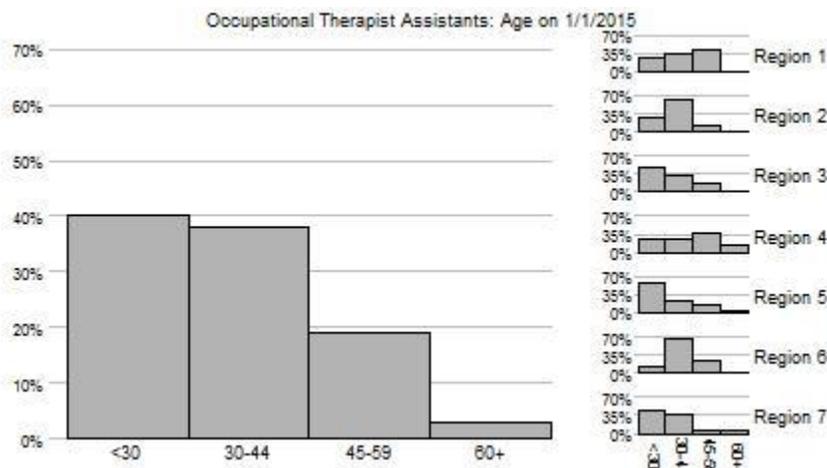
Supply: During the 2012-2013 academic year, there were 16 graduates reported from Occupational Therapist Assistants programs in South Dakota.

Optometrists

Description: A program that prepares individuals for the independent professional practice of optometry and that focuses on the principles and techniques for examining, diagnosing and treating conditions of the visual system. Includes instruction in prescribing glasses and contact lenses, other optical aids, corrective therapies, patient counseling, physician referral, practice management, and ethics and professional standards.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 7 new Optometrists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Optometrists	160	180	20	12.5%	7

Current Workforce Information: The statewide median age of Optometrists is 46 years and 55.9% of Optometrists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	27	46.7	10.6	44	48.1	7.4
2	63	45.5	11.6	46	53.7	14.8
3	23	45.9	11.5	42	47.8	17.4
4	17	48.2	12.8	49	62.5	18.8
5	15	48.8	10.2	50	61.5	15.4
6	7	50.9	12.4	57	71.4	28.6
7	39	46.0	10.0	46	54.5	9.1
Not SD*	32	47.7	11.5	47	64.5	9.7
Total	223	46.7	11.1	46	55.9	13.2

*Licensure/certification data included individuals with addresses not located in South Dakota.

Optometrists: Age on 1/1/2015
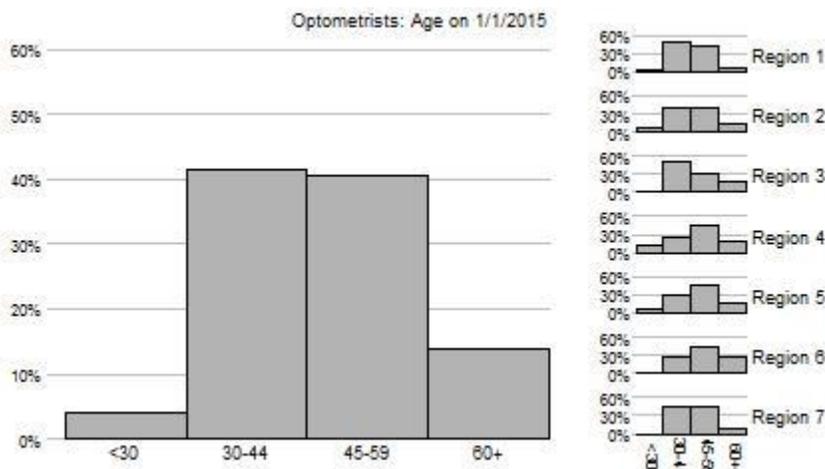
Supply: There are currently no Optometry programs in South Dakota.

Pharmacists

Description: A program that prepares individuals for the independent or employed practice of preparing and dispensing drugs and medications in consultation with prescribing physicians and other health care professionals, and for managing pharmacy practices and counseling patients. Includes instruction in mathematics, physics, chemistry, biochemistry, anatomy, physiology, pharmacology, pharmaceutical chemistry, pharmacognosy, pharmacy practice, pharmacy administration, applicable regulations, and professional standards and ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 37 new Pharmacists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Pharmacists	1,030	1,150	120	11.7%	37

Current Workforce Information: The statewide median age of Pharmacists is 43 years and 47% of Pharmacists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	151	46.9	14.9	45	51.0	23.8
2	555	40.9	12.3	38	35.1	11.0
3	118	47.7	13.9	48	57.6	29.7
4	64	43.3	13.8	42	43.8	15.6
5	86	45.7	12.4	46	54.7	14.0
6	55	46.9	15.8	44	49.1	29.1
7	171	45.8	13.6	46	54.4	19.3
Not SD	713	45.4	13.8	45	51.2	20.3
Total	1913	44.4	13.7	43.0	47.0	18.2
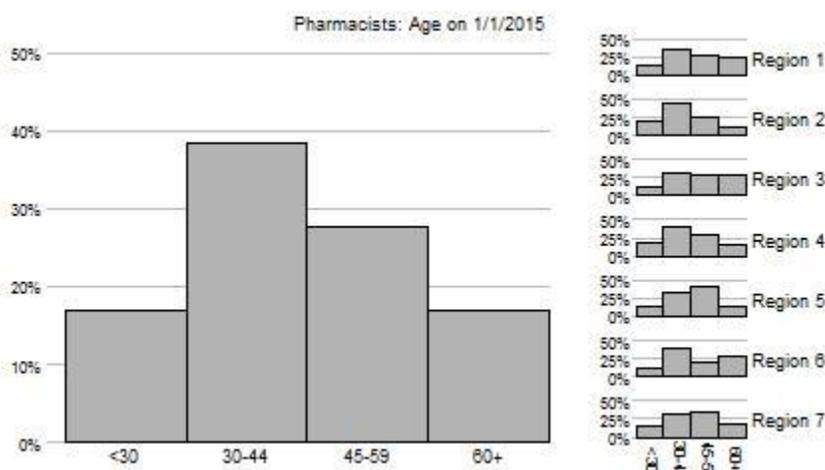
Supply: During the 2013-2014 academic year there were 77 graduates reported from the Pharmacy programs in South Dakota.

Pharmacy Technicians

Description: A program that prepares individuals, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations. Includes instruction in medical and pharmaceutical terminology, principles of pharmacology and pharmaceutics, drug identification, pharmacy laboratory procedures, prescription interpretation, patient communication and education, safety procedures, record-keeping, measurement and testing techniques, pharmacy business operations, prescription preparation, logistics and dispensing operations, and applicable standards and regulations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 28 new Pharmacy Technicians per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Pharmacy Technicians	1,245	1,405	160	12.9%	28

Current Workforce Information: Demographic information on the current workforce is not currently available.

Supply: During the 2012-2013 academic year there were 50 graduates reported from Pharmacy Technician programs in South Dakota.

Physical Therapist Assistants

Description: A program that prepares individuals, under the supervision of a physical therapist, to implement physical therapy treatment care plans, train patients, conduct treatment interventions, use equipment, and observe and record patient progress. Includes instruction in applied anatomy and physiology, applied kinesiology, principles and procedures of physical therapy, basic neurology and orthopedics, physical therapy modalities, documentation skills, psychosocial aspects of health care, wound and injury care, electrotherapy, working with orthotics and prostheses, and personal and professional ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 11 Physical Therapist Assistants per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Physical Therapist Assistants	240	305	65	27.1%	11

Current Workforce Information: The statewide median age of Physical Therapist Assistants is 34 years and 20.2% of Physical Therapist Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	37	35.3	10.8	32	21.6	0.0
2	31	34.4	11.1	30	19.4	3.2
3	73	33.5	9.0	32	13.7	0.0
4	11	38.4	15.2	34	27.3	9.1
5	24	36.2	10.7	34	16.7	4.2
6	14	36.6	11.8	36	21.4	0.0
7	19	40.9	10.3	39	26.3	0.0
Not SD*	53	37.1	11.9	34	26.4	3.8
Total	262	35.7	10.9	34	20.2	1.9

*Licensure/certification data included individuals with addresses not located in South Dakota.

Physical Therapist Assistants: Age on 1/1/2015
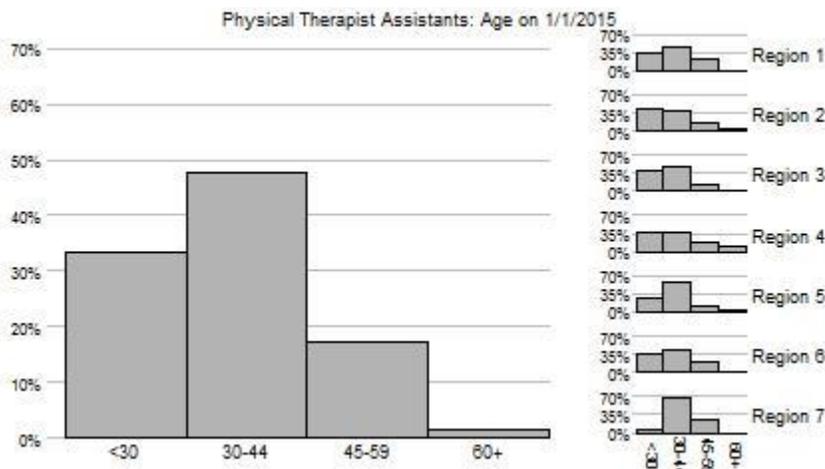
Supply: During the 2012-2013 academic year, there were 23 graduates reported from the Physical Therapy Assistant program in South Dakota.

Physical Therapists

Description: A program that prepares individuals to alleviate physical and functional impairments and limitations caused by injury or disease through the design and implementation of therapeutic interventions to promote fitness and health. Includes instruction in functional anatomy and physiology, kinesiology, neuroscience, pathological physiology, analysis of dysfunction, movement dynamics, physical growth process, management of musculoskeletal disorders, clinical evaluation and measurement, client assessment and supervision, care plan development and documentation, physical therapy modalities, rehabilitation psychology, physical therapy administration, and professional standards and ethics.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 31 Physical Therapists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Physical Therapists	645	790	145	22.5%	31

Current Workforce Information: The statewide median age of Physical Therapists is 41 years and 37.7% of Physical Therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Physical Therapists	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	117	41.6	10.6	41	32.5	7.7
2	253	41.9	10.6	41	38.3	5.1
3	80	39.7	8.1	40	25.0	2.5
4	57	41.8	10.2	41	47.4	5.3
5	74	39.4	10.0	40	27.0	1.4
6	35	41.2	9.5	40	37.1	2.9
7	127	42.9	11.9	41	41.7	11.8
Not SD*	181	41.9	10.6	42	44.2	5.5
Total	924	41.6	10.5	41	37.7	5.8

*Licensure/certification data included individuals with addresses not located in South Dakota.

Physical Therapists: Age on 1/1/2015
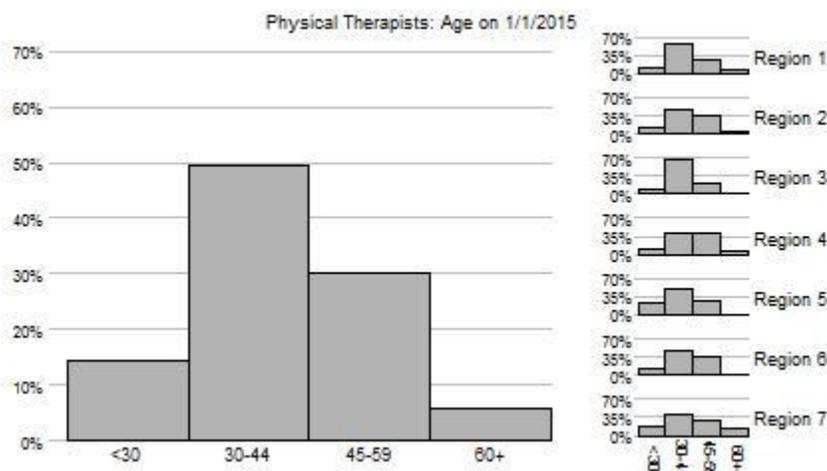
Supply: During the 2013-2014 academic year there were 36 graduates reported from the Physical Therapy program in South Dakota.

Physician Assistants

Description: A program that prepares individuals to practice medicine, including diagnoses and treatment therapies, under the supervision of a physician. Includes instruction in the basic medical and clinical sciences and specialized preparation in fields such as family medicine, pediatrics, obstetrics, gynecology, general surgery, psychiatry, and behavioral medicine; the delivery of health care services to homebound patients, rural populations, and underserved populations; and community health services.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 20 new Physician Assistants per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Physician Assistants	470	585	115	24.5%	20

Current Workforce Information: The statewide median age of Physician Assistants is 43 years and 46.6% of Physician Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	84	44.8	11.3	44	48.8	13.1
2	161	41.1	11.6	38	35.4	9.9
3	49	45.9	13.2	45	53.1	16.3
4	42	47.0	13.1	45	52.4	23.8
5	53	45.2	12.3	48	58.5	7.5
6	29	50.9	13.0	55	69.0	34.5
7	82	43.1	12.5	39	40.2	12.2
Not SD*	79	45.3	12.8	46	50.6	13.9
Total	579	44.2	12.4	43	46.6	13.8

*Licensure/certification data included individuals with addresses not located in South Dakota.

Physician Assistants: Age on 1/1/2015
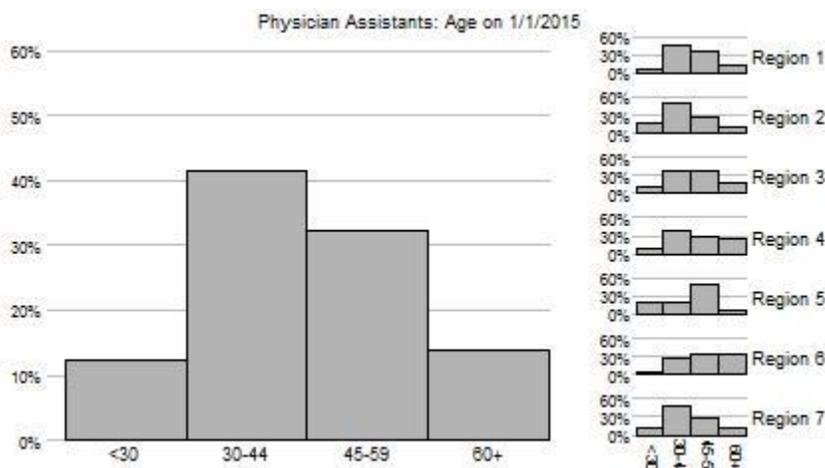
Supply: During the 2013-2014 academic year there were 19 graduates reported from the Physician Assistant program in South Dakota.

Physicians

Description: A program that prepares individuals for the independent professional practice of medicine, involving the prevention, diagnosis, and treatment of illnesses, injuries, and other disorders of the human body. Includes instruction in the basic medical sciences, clinical medicine, examination and diagnosis, patient communications, medical ethics and law, professional standards, and rotations in specialties such as internal medicine, surgery, pediatrics, obstetrics and gynecology, orthopedics, neurology, ophthalmology, radiology, clinical pathology, anesthesiology, family medicine, and psychiatry.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 14 Family and General Practitioners and 9 Surgeons per year. See the table below for projections on other Physician/Medical specialties.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Anesthesiologists	30	35	5	16.7%	1
Family and General Practitioners	500	515	15	3.0%	14
Internists, General	205	210	5	2.4%	5
Obstetricians and Gynecologists	45	45	0	0.0%	1
Pediatricians, General	55	55	0	0.0%	1
Physicians and Surgeons, All Other	545	590	45	8.3%	18
Psychiatrists	20	20	0	0.0%	0
Surgeons	225	250	25	11.1%	9

Current Workforce Information: The statewide median age of Physicians is 52 years and 68.1% of Physicians are age 45 or older. The percent of Physicians age 45 and older is greater than 56% in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	275	51.5	12.4	52.0	65.1	28.7
2	1012	49.1	12.2	48.0	56.9	22.3
3	149	51.9	12.0	52.0	70.9	32.4
4	77	55.8	11.8	57.0	79.2	44.2
5	149	50.9	13.1	51.0	63.8	26.8
6	64	51.0	12.9	52.0	67.2	25.0
7	417	53.4	12.3	54.0	75.2	30.5
Not SD*	1616	52.7	11.3	53.0	73.4	29.6
Total	3759	51.7	12.0	52.0	68.1	27.9

*Licensure/certification data included individuals with addresses not located in South Dakota.

Physicians: Age on 1/1/2015
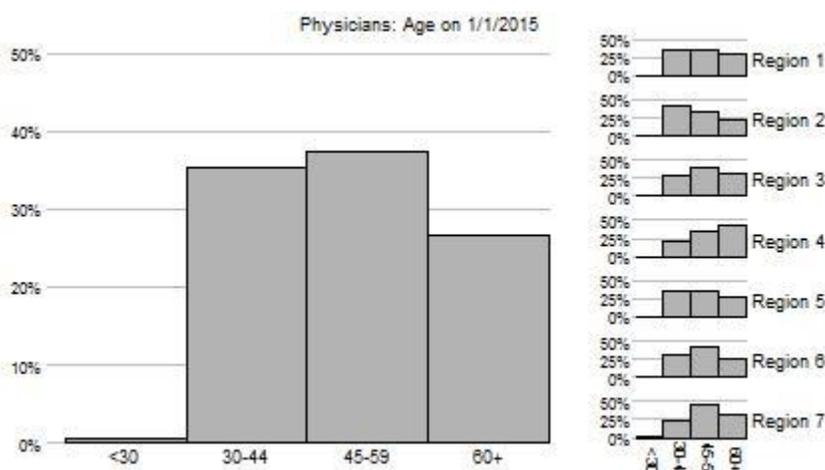
Supply: During the 2013-2014 academic year, there were 52 graduates reported from the Physician program in South Dakota.

Radiology

Description:
Radiologic Technologists and Technicians: A program that prepares individuals, under the supervision of physicians, to provide medical imaging services to patients and attending health care professionals. Includes instruction in applied anatomy and physiology, patient positioning, radiographic technique, radiation biology, safety and emergency procedures, equipment operation and maintenance, quality assurance, patient education, and medical imaging/radiologic services management.

Medical Radiologic Technology/Science-Radiation Therapists: A program that prepares individuals to administer prescribed courses of radiation treatment, manage patients undergoing radiation therapy, and maintain pertinent records. Includes instruction in applied anatomy and physiology, oncologic pathology, radiation biology, radiation oncology procedures and techniques, radiation dosimetry, tumor localization, treatment planning, patient communication and management, data collection, record-keeping, and applicable standards and regulations.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 25 new Radiologic Technologists and Technicians per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Radiologic Technologists and Technicians	955	1,075	120	12.6%	25

Current Workforce Information: Demographic information on the current workforce is not currently available.

Supply: During the 2012-2013 academic year, there were 55 graduates reported from the Radiologic Technologists and Technicians programs in South Dakota.

Registered Nurses (RNs)

Description: The preparation and practice of RNs requires substantial specialized knowledge, judgment and skill based upon the principles of the biological, physiological, behavioral and sociological sciences, and for which the registered nurse bears responsibility and accountability. RNs perform assessments and nursing diagnoses of actual or potential health problems for individuals or groups, providing and administering preventative, restorative and supportive care, health teaching and counseling, case management and referral. RNs supervise, delegate, and evaluate the care performed by others.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 370 Registered Nurses per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Registered Nurses	11,380	12,870	1,490	13.1%	370

Current Workforce Information: The statewide median age of Registered Nurses is 43 years and 48% of Registered Nurses are age 45 or older. The percent of Registered Nurses age 45 and older is greater than 50% in four of seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Registered Nurses	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	2172	45.0	13.5	45.0	51.3	15.9
2	5351	41.6	13.5	39.0	39.8	12.6
3	1618	44.3	13.8	44.0	48.6	16.4
4	901	46.0	13.5	47.0	54.7	19.4
5	1093	45.5	13.5	47.0	54.3	17.9
6	634	45.8	13.2	46.0	53.0	18.0
7	2308	44.8	13.6	44.0	49.6	16.8
Not SD*	2143	46.1	12.5	47.0	55.3	16.3
Total	16220	44.0	13.5	43.0	48.0	15.5

*Licensure/certification data included individuals with addresses not located in South Dakota.

Registered Nurses: Age on 1/1/2015
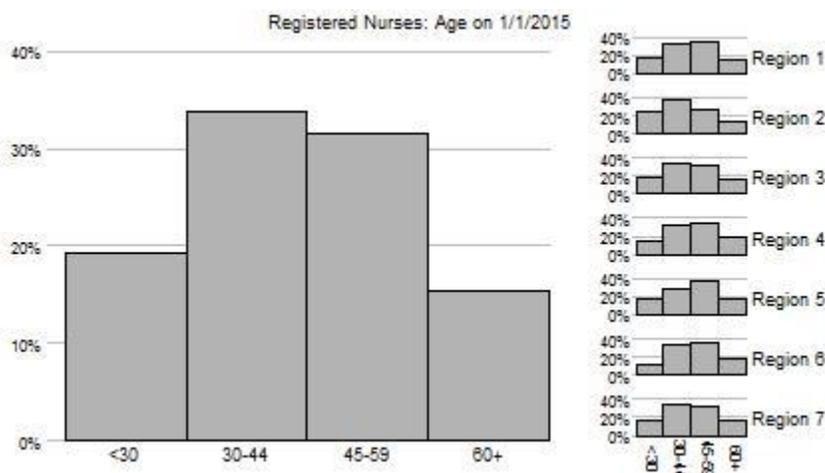
Supply: During the 2013-2014 academic year, there were 609 nursing graduates reported in South Dakota. Data was not yet available for non-Board of Regents schools for the 2014 academic year. See Table 2 and Table 3 for a complete breakdown. For more information on the nursing workforce please refer to the South Dakota Board of Nursing reports located at http://doh.sd.gov/Boards/Nursing/RandP.aspx.

Respiratory Therapists

Description: A program that prepares individuals, under the supervision of physicians, to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. Includes instruction in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record-keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 9 new Respiratory Therapists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Respiratory Therapists	335	380	45	13.4%	9

Current Workforce Information: The statewide median age of Respiratory Therapists is 44 years and 49.5% of Respiratory Therapists are age 45 or older. The percent of Respiratory Therapists age 45 and older is greater than 56% in five of the seven regions.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Respiratory Therapists	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	49.0	47.5	12.4	50.0	59.2	22.4
2	172.0	42.4	11.6	43.0	46.5	8.7
3	43.0	45.4	12.8	48.0	58.1	14.0
4	23.0	45.1	12.2	46.0	56.5	13.0
5	35.0	46.3	14.5	49.0	57.1	17.1
6	10.0	53.7	11.5	54.0	80.0	30.0
7	72.0	42.2	12.8	40.0	43.1	13.9
Not SD*	65.0	40.8	13.0	39.0	40.0	7.7
Total	469.0	43.6	12.6	44.0	49.5	12.6

*Licensure/certification data included individuals with addresses not located in South Dakota.

Respiratory Therapists: Age on 1/1/2015
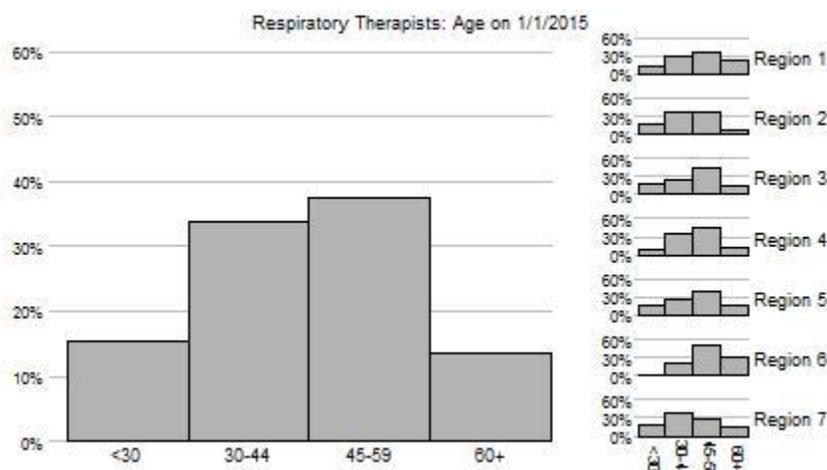
Supply: During the 2013-2014 academic year there were 20 graduates reported from Respiratory Therapy programs in South Dakota.

Speech-Language Pathologists

Description: A program that prepares individuals to evaluate the speaking, language interpretation, and related physiological and cognitive capabilities of children and/or adults and develop treatment and rehabilitative solutions in consultation with clinicians and educators. Includes instruction in the anatomy and physiology of speech and hearing, biomechanics of swallowing and vocal articulation, communications disorders, psychology of auditory function and cognitive communication, language assessment and diagnostic techniques, and rehabilitative and management therapies.

Demand: Between 2012 and 2022, the South Dakota Department of Labor and Regulation projects that each year South Dakota will need an average of 10 Speech-Language Pathologists per year.

Occupational Title	2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Openings
Speech-Language Pathologists	405	445	40	9.9%	10

Current Workforce Information: Information on the current speech-language pathologist workforce was not available at time of report completion.

Supply: During the 2013-2014 academic year there were 21 graduates reported from speech-language pathology programs in South Dakota.