



Ohio Board of Nursing

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MEMORANDUM

TO: Board Members

FROM: Lisa Emrich, Program Manager

DATE: October 26, 2021

RE: NEALP Recommendations

As discussed in the NEALP Report Memorandum, the Board is to provide a recommendation to the Chancellor of the Ohio Department of Higher Education (ODHE) regarding NEALP funding for the 2022-2023 school year.

For the past several years, the Board has recommended prioritizing funding for graduate education to prepare future nursing faculty, followed by RN education applicants, and then PN education applicants if there are remaining funds available. These recommendations were based on the nursing workforce employment projections for Ohio and nursing education program information.

Occupational and Licensure Data for Ohio 2018-2028

The Bureau of Labor Market Information of the Ohio Department of Job and Family Services publishes occupational employment projections for Ohio. Its most recent report is the "2028 Ohio Occupational Employment Projections Report"

The annual employment for RNs in 2018 was 127,431. By 2028 the employment projection for RNs is 139,681, a projected growth of 12,250 (9.6%). Total annual openings are estimated to total 8,357 (1,225 growth; 1,444 exits; 3,426 transfers).

Certified Nurse Practitioners, and Nursing instructors and teachers are listed as one of the fastest growing occupations at a 24.6% and 16.1% change respectively.

The annual employment for LPNs in 2018 was 41,166. By 2028 the employment projection for LPNs is 43,893 a projected growth of 2,797 (6.6%) from 2018. Total annual openings are estimated to total 3,514 (273 growth; 1,487 exits; 1,797 transfers).

National Occupational and Licensure Projections 2020-2030

The U.S. Bureau of Labor Statistics, Occupational Outlook Handbook (last modified September 8, 2021) reports the national employment projections to 2030 for LPNs, RNs and APRNs as indicated below.

Licensure	National 2020 Employment	National 2030 Employment Projections	Percent Projected Increase
LPN/LVN	688,100	751,900	9%
RN	3,080,100	3,356,800	9%
APRN*	271,900	393,200	45%

*data excludes CNSs

Ohio Workforce Data Summary Report 2021 – LPNs

Workforce data was collected during LPN renewal that was extended to July 1, 2021, by HB 404 (133rd GA). The data collected provided information regarding the approximately 48,544 LPNs who renewed their license and responded about their plans for RN education.

- 14,862 (31%) reported plans to become a RN
- 5,260 (11%) reported current enrollment to become a RN
- 3,948 (14%) reported financial barriers as reason for not obtaining RN education

Ohio Pre-licensure Nursing Education Program Data

Board Agenda item 5.2.1 is the Summary of Education Program Annual Reports submitted by pre-license nursing education programs. Below is reported data relative to faculty and teaching assistant turnover for the period of June 1, 2020, through July 1, 2021.

RN programs reported:

- 135 faculty members and teaching assistants left their positions during the year
- 734 faculty members and teaching assistants projected to leave their positions in the next five years
- 227 faculty and teaching assistants are actively pursuing a master's degree in nursing
- 8,604 individuals successfully completed RN programs during the year

PN programs reported:

- 59 faculty members and teaching assistants left their positions during the year
- 331 faculty members and teaching assistants projected to leave their positions in the next five years
- 58 faculty and teaching assistants are actively pursuing a master's degree in nursing
- 2,856 individuals successfully completed PN programs during the year

Considerations for Board Funding Recommendation

The ODHE Chancellor is authorized to determine distribution of the NEALP funds, upon considering the recommendations of the Board. The national projected employment data, and the state's need for nurses, especially graduate-level nurse educators, provide a basis for a recommendation for the next school year.

5.2.1.1

Last year's Board recommendation was to provide NEALP funding for applicants who are pursuing graduate education to become nursing faculty, then for applicants for RN education programs, and if funds are available, for pre-licensure PN applicants.

**Appendix Table J – cont'd.
Ohio Occupational Employment * Projections Report, 2018–2028**

Code	Occupational Title	Employment		Change in Employment Percent	Growth	Annual Openings		Total	Median Wage May 2019
		2018 Annual	2028 Projected			Exits	Transfers		
27-4021	Photographers	5,128	4,350	-778 -15.2%	-78	182	288	392	\$15.60
27-4031	Camera Operators, TV, Video and Motion Picture	578	633	55 9.5%	6	16	43	65	\$24.95
27-4032	Film and Video Editors	507	581	74 14.6%	7	14	39	60	\$26.91
27-4098	Media and Communication Equipment Workers, All Other	319	318	-1 -0.3%	0	10	24	34	\$32.22
29-0000	Healthcare Practitioners and Technical Occupations	367,700	398,498	30,798 8.4%	3,076	10,077	11,594	24,747	\$29.83
29-1011	Chiropractors	1,966	2,004	38 1.9%	4	35	18	57	\$39.19
29-1021	Dentists, General	3,994	3,966	-28 -0.7%	-3	86	34	117	\$88.94
29-1023	Orthodontists	263	260	-3 -1.1%	0	6	2	8	#
29-1029	Dentists, All Other Specialists	123	125	2 1.6%	0	3	1	4	\$60.51
29-1031	Dietitians and Nutritionists	2,518	2,696	178 7.1%	18	85	79	182	\$27.99
29-1041	Optometrists	1,349	1,396	47 3.5%	5	25	15	45	\$55.41
29-1051	Pharmacists	12,404	12,223	-181 -1.5%	-18	291	263	536	\$58.81
29-1071	Physician Assistants	4,503	5,735	1,232 27.4%	123	79	212	414	\$52.09
29-1081	Podiatrists	456	464	8 1.8%	1	11	15	27	\$66.69
29-1122	Occupational Therapists	4,842	5,469	627 12.9%	63	115	174	352	\$40.54
29-1123	Physical Therapists	8,019	9,258	1,239 15.5%	124	158	202	484	\$42.19
29-1124	Radiation Therapists	550	574	24 4.4%	2	8	19	29	\$39.17
29-1125	Recreational Therapists	686	708	22 3.2%	2	14	19	35	\$21.76
29-1126	Respiratory Therapists	6,286	7,511	1,225 19.5%	122	190	175	487	\$27.69
29-1127	Speech-Language Pathologists	5,553	6,835	1,282 23.1%	128	122	209	459	\$35.71
29-1128	Exercise Physiologists	516	544	28 5.4%	3	12	17	32	\$23.33
29-1129	Therapists, All Other	1,088	1,187	99 9.1%	10	26	36	72	\$34.95
29-1131	Veterinarians	3,327	3,841	514 15.4%	51	68	70	189	\$46.65
29-1141	Registered Nurses	127,431	139,681	12,250 9.6%	1,225	3,706	3,426	8,357	\$31.63
29-1151	Nurse Anesthetists	2,553	2,904	351 13.7%	35	43	92	170	\$80.80
29-1161	Nurse Midwives	203	216	13 6.4%	1	4	7	12	\$46.98
29-1171	Nurse Practitioners	7,721	9,624	1,903 24.6%	190	171	292	653	\$49.75
29-1181	Audiologists	529	582	53 10.0%	5	11	12	28	\$33.75
29-1199	Health Diagnosing and Treating Practitioners, All Other	1,157	1,244	87 7.5%	9	34	22	65	▲
29-1211	Anesthesiologists	1,461	1,465	4 0.3%	0	24	19	43	#
29-1215	Family and General Practitioners	4,040	4,353	313 7.7%	31	69	54	154	\$86.64
29-1216	Internists, General	2,272	2,244	-28 -1.2%	-3	37	29	63	\$91.19
29-1218	Obstetricians and Gynecologists	1,088	1,073	-15 -1.4%	-2	18	14	30	#
29-1221	Pediatricians, General	2,240	2,213	-27 -1.2%	-3	36	28	61	\$75.47
29-1223	Psychiatrists	1,341	1,513	172 12.8%	17	23	18	58	#
29-1228	Physicians and Surgeons, All Other	18,495	19,356	861 4.7%	86	310	243	639	#
29-1248	Surgeons	2,222	2,197	-25 -1.1%	-2	36	28	62	#
29-1292	Dental Hygienists	9,035	9,239	204 2.3%	20	382	231	633	\$33.03
29-2010	Clinical Laboratory Technologists and Technicians (Medical and Clinical Laboratory Technologists and Technicians 2011 and 2012)	10,684	11,243	559 5.2%	56	302	389	747	\$25.50
29-2031	Cardiovascular Technologists and Technicians	2,036	2,127	91 4.5%	9	51	63	123	\$25.98
29-2032	Diagnostic Medical Sonographers	2,731	3,148	417 15.3%	42	72	89	203	\$31.75
29-2033	Nuclear Medicine Technologists	793	825	32 4.0%	3	20	24	47	\$34.97
29-2034	Radiologic Technologists	8,120	8,535	415 5.1%	42	205	252	499	\$27.95
29-2035	Magnetic Resonance Imaging Technologists	1,301	1,358	57 4.4%	6	33	40	79	\$32.13
29-2041	Emergency Medical Technicians and Paramedics	10,247	10,310	63 0.6%	6	183	500	689	\$15.57 †

**Appendix Table J – cont'd.
Ohio Occupational Employment* Projections Report, 2018–2028**

Code	Occupational Title	Employment		Change in		Growth	Annual Openings		Total	Median Wage May 2019
		2018 Annual	2028 Projected	2018-2028 Employment	Percent		Exits	Transfers		
29-2051	Dietetic Technicians	1,329	1,361	32	2.4%	3	39	70	112	\$12.72
29-2052	Pharmacy Technicians	15,912	16,762	850	5.3%	85	472	845	1,402	\$14.52
29-2053	Psychiatric Technicians	1,712	1,912	200	11.7%	20	52	94	166	\$15.26
29-2054	Respiratory Therapy Technicians (moved to 29-2099 Health Tech, All Other for 2018)	206	85	-121	-58.7%	-12	6	6	0	▲
29-2055	Surgical Technologists	3,715	3,916	201	5.4%	20	110	197	327	\$22.55
29-2056	Veterinary Technologists and Technicians	3,675	4,280	605	16.5%	60	115	206	381	\$16.40
29-2057	Ophthalmic Medical Technicians	2,230	2,460	230	10.3%	23	68	121	212	\$17.98
29-2061	Licensed Practical and Licensed Vocational Nurses	41,166	43,893	2,727	6.6%	273	1,444	1,797	3,514	\$21.62
29-2071	Medical Records and Health Information Technicians	9,811	10,760	949	9.7%	95	303	352	750	▲
29-2081	Opticians, Dispensing	3,212	3,331	119	3.7%	12	129	129	270	\$20.29
29-2091	Orthotists and Prosthetists	463	555	92	19.9%	9	14	21	44	\$29.94
29-2092	Hearing Aid Specialists	191	219	28	14.7%	3	6	8	17	\$22.17
29-2098	Health Technologists and Technicians, All Other	5,517	6,061	544	9.9%	54	157	235	446	\$31.29
29-9091	Athletic Trainers	1,290	1,430	140	10.9%	14	31	45	90	\$47,660 ††
29-9092	Genetic Counselors	138	166	28	20.3%	3	4	5	12	\$37.77
29-9098	Healthcare Practitioners and Technical Workers, All Other	854	918	64	7.5%	6	20	30	56	\$31.29
31-0000	Healthcare Support Occupations	193,090	222,027	28,937	15.0%	2,894	10,476	13,005	26,375	\$12.85
31-1011	Home Health Aides	56,510	73,764	17,254	30.5%	1,725	3,502	3,798	9,025	\$11.08 †
31-1013	Psychiatric Aides	1,151	1,313	162	14.1%	16	66	72	154	\$17.24
31-1014	Nursing Assistants	67,330	69,668	2,338	3.5%	234	3,682	3,994	7,910	\$13.61
31-1015	Orderlies	2,241	2,313	72	3.2%	7	122	133	262	\$13.69
31-2011	Occupational Therapist Assistants	3,683	4,754	1,071	29.1%	107	182	274	563	\$28.71
31-2012	Occupational Therapy Aides	186	201	15	8.1%	2	8	13	23	\$15.36
31-2021	Physical Therapist Assistants	6,120	7,407	1,287	21.0%	129	291	548	968	\$28.32
31-2022	Physical Therapist Aides	716	807	91	12.7%	9	33	62	104	\$13.19
31-9011	Massage Therapists	3,165	3,874	709	22.4%	71	220	190	481	\$19.43
31-9091	Dental Assistants	10,605	10,880	275	2.6%	28	497	706	1,231	\$18.66
31-9092	Medical Assistants	24,124	28,446	4,322	17.9%	432	1,026	1,869	3,327	\$15.87
31-9093	Medical Equipment Preparers	1,891	1,989	98	5.2%	10	96	125	231	\$17.16
31-9094	Medical Transcriptionists	1,815	1,667	-148	-8.2%	-15	106	137	228	\$18.18
31-9095	Pharmacy Aides	689	622	-67	-9.7%	-7	32	52	77	\$12.00
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	2,903	3,345	442	15.2%	44	170	334	548	\$16.52
31-9097	Phlebotomists	5,740	6,584	844	14.7%	84	230	422	736	\$12.49
31-9099	Healthcare Support Workers, All Other	4,221	4,393	172	4.1%	17	212	278	507	\$20.29
33-0000	Protective Service Occupations	120,483	119,239	-1,244	-1.0%	-124	5,407	7,476	12,759	\$20.54
33-1011	First-Line Supervisors of Correctional Officers	595	534	-61	-10.3%	-6	18	22	34	\$33.30
33-1012	First-Line Supervisors of Police and Detectives	2,811	2,830	19	0.7%	2	68	106	176	\$40.26
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	2,587	2,608	21	0.8%	2	64	100	166	\$36.76
33-1099	First-Line Supervisors of Protective Service Workers, All Other	2,708	2,665	-43	-1.6%	-4	97	159	252	\$18.78 †
33-2011	Fire Fighters	19,148	19,321	173	0.9%	17	347	962	1,326	\$23.05
33-2021	Fire Inspectors and Investigators	335	350	15	4.5%	2	14	17	33	\$28.42
33-3011	Balliffs	1,401	1,342	-59	-4.2%	-6	52	69	115	\$22.70
33-3021	Correctional Officers and Jailers	13,520	12,015	-1,505	-11.1%	-150	486	640	976	\$22.96
33-3021	Detectives and Criminal Investigators	1,983	1,979	-4	-0.2%	0	42	85	127	\$34.74
33-3041	Parking Enforcement Workers	151	92	-59	-39.1%	-6	3	6	3	\$19.32

Appendix Table G
Ohio's Fastest Growing Occupations*, 2018–2028

Occupational Title	Percent Change	Total Annual Openings	Median Wage May 2019
Personal and Home Care Aides (SOC 39-9021)	32.0%	8,998	\$11.08 †
Home Health Aides (SOC 31-1011)	30.5%	9,025	\$11.08 †
Occupational Therapist Assistants (SOC 31-2011)	29.1%	563	\$28.71
Information Security Analysts (SOC 15-1212)	28.9%	389	\$44.59
Physician Assistants (SOC 29-1071)	27.4%	414	\$52.09
Statisticians (SOC 15-2041)	26.4%	103	\$38.46
Taxi Drivers and Chauffeurs (SOC 53-3041)	25.6%	1,982	▲
Nurse Practitioners (SOC 29-1171)	24.6%	653	\$49.75
Speech-Language Pathologists (SOC 29-1127)	23.1%	459	\$35.71
Massage Therapists (SOC 31-9011)	22.4%	481	\$19.43
Actuaries (SOC 15-2011)	22.3%	146	\$46.49
Operations Research Analysts (SOC 15-2031)	21.4%	358	\$39.29
Physical Therapist Assistants (SOC 31-2021)	21.0%	968	\$28.32
Genetic Counselors (SOC 29-9092)	20.3%	12	\$37.77
Respiratory Therapists (SOC 29-1126)	19.5%	487	\$27.69
Software Developers, Applications (SOC 15-1132)	19.4%	3,466	▲
Numerical Tool and Process Control Programmers (SOC 51-9162)	18.5%	231	\$24.47
Medical Assistants (SOC 31-9092)	17.9%	3,327	\$15.87
Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)	17.6%	1,130	\$21.94
Health Specialties Teachers, Postsecondary (SOC 25-1071)	17.4%	1,084	\$107,960 ††
Floor Layers, Except Carpet, Wood, and Hard Tiles (SOC 47-2042)	17.3%	136	\$20.83
Residential Advisors (SOC 39-9041)	17.2%	598	\$13.47
Interpreters and Translators (SOC 27-3091)	17.0%	298	\$24.41
Market Research Analysts and Marketing Specialists (SOC 13-1161)	16.8%	3,225	\$29.18
Veterinary Technologists and Technicians (SOC 29-2056)	16.5%	381	\$16.40
Nursing Instructors and Teachers, Postsecondary (SOC 25-1072)	16.1%	284	\$73,730 ††
Medical and Public Health Social Workers (SOC 21-1022)	15.7%	890	\$26.77
Physical Therapists (SOC 29-1123)	15.5%	484	\$42.19
Veterinarians (SOC 29-1131)	15.4%	189	\$46.65
Diagnostic Medical Sonographers (SOC 29-2032)	15.3%	203	\$31.75
Veterinary Assistants and Laboratory Animal Caretakers (SOC 31-9096)	15.2%	548	\$12.49
Phlebotomists (SOC 31-9097)	14.7%	736	\$16.52
Film and Video Editors (SOC 27-4032)	14.6%	60	\$26.91
Cooks, Restaurant (SOC 35-2014)	14.4%	6,155	\$12.04
Tile and Marble Setters (SOC 47-2044)	14.3%	111	\$19.26

* Occupations with at least 500 employment.

† Aggregated statewide wages.

†† Certain occupations only report wages at the annual level - for elementary and secondary teachers this typically reflects a 9 1/2-month school year.

▲ Wage not available due to OES/SOC changes.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, January 2021.