



American Association of
Colleges of Pharmacy

American College of
Clinical Pharmacy

American Pharmacists
Association

American Society of
Health-System Pharmacists

Board of Pharmacy Specialties

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Pharmacy Associations

National Association of
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Pharmacy Demand Report (PDR) Executive Summary

3rd Quarter 2020

This is the executive summary of the Pharmacy Demand Report (PDR) for the third quarter 2020. An overview of the PDR can be found [online](#).

Pharmacists

There have been 9,901 job postings for pharmacists through the third quarter 2020. Highlights for pharmacist job postings for 2020 include:

- 5,260 job postings were reported for the first quarter (which includes carry over postings from 2019), 2,115 job postings were reported for the second quarter and 2,526 job postings were reported for the third quarter;
- The highest number of job postings continues to be in the western part of the country, followed by the south, midwest, and northeast;
 - In the third quarter 2020, the highest number of job postings were reported in the south, followed by the west, midwest and northeast;
- California continues to have the highest number of job postings (1,821), followed by Florida (825), Texas (735), and Ohio (548). Vermont has the lowest number of job postings (4);
 - In the third quarter 2020, the highest number of job postings were reported in California, followed by Florida, Texas, Georgia, and Ohio;
- The MSAs with the highest number of job postings in the first quarter were Los Angeles, New York-Newark, and Chicago; the top MSAs in the second quarter were New York-Newark, Los Angeles, and Sacramento; and top MSAs in the third quarter were Los Angeles, Miami-Fort Lauderdale, and New York-Newark; and
- The highest number of postings are for the Clinical Pharmacist position (3,614) followed by Retail Pharmacist position (3,115), the Other Pharmacist Occupations category (1,891), Hospital Pharmacist position (749), and Pharmacy Director position (527).

The next Pharmacy Demand Report will be available mid-January 2021 and will include information for 2020. Contact Tom Maggio, Pharmacy Workforce Center Secretary/Treasurer at TMaggio@aacp.org or 703-479-3832 with any PDR-related questions.

Pharmacy Technicians

There were 106,145 pharmacy technicians through the third quarter 2020. Highlights for pharmacy technicians for 2020 include:

- 48,445 job postings were reported for the first quarter (includes carry over postings from 2019), 28,664 job postings were reported for the second quarter, and 29,036 job postings were reported for the third quarter;
- The highest number of job postings continue to be in the southern part of the country, followed by the west, midwest, and northeast;
- California has the highest number of job postings (11,213), followed by Texas (8,952), Florida (6,725), and Ohio (5,563). Wyoming had the lowest number of job postings (77);
 - In the third quarter 2020, the highest number of job postings were reported in California, Texas, Arizona, and Florida; and
- New York-Newark had the highest number of job postings for both the first and second quarters. For the first quarter, the top MSAs also included Chicago, Los Angeles and Dallas-Fort Worth. For the second quarter, the top MSAs were Los Angeles, Chicago, and Phoenix. The top MSAs for the third quarter were Phoenix-Mesa, New York-Newark, and Los Angeles.

Regional Data

Clinical Pharmacist									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	195	119	144	172	630	276	115	191	
South	407	324	310	480	1,521	640	144	487	
Midwest	284	204	195	273	956	406	93	224	
West	408	317	291	397	1,413	532	176	330	

Retail Pharmacist									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	228	234	184	185	831	285	202	91	
South	330	235	239	294	1,098	424	208	265	
Midwest	394	265	207	223	1,089	338	137	87	
West	518	385	332	346	1,581	627	279	172	

Hospital Pharmacist									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	53	29	34	38	154	57	17	19	
South	111	73	104	66	354	112	72	60	
Midwest	165	95	51	70	381	82	34	18	
West	230	155	139	78	602	155	68	55	

All Pharmacist Positions									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	713	520	475	502	2,210	842	440	372	
South	1,214	842	819	1,071	3,946	1,511	565	969	
Midwest	1,166	788	683	792	3,429	1,214	401	440	
West	1,542	1,211	1,037	1,062	4,852	1,693	709	740	

Other Pharmacist Occupations									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	208	125	99	90	522	193	89	66	
South	265	159	108	179	711	251	93	123	
Midwest	269	170	198	180	817	335	112	90	
West	284	251	187	167	889	271	144	124	

Pharmacy Technicians									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	7,310	5,812	4,763	5,457	23,342	8,690	5,506	4,272	
South	14,663	10,660	9,889	10,837	46,049	16,435	9,686	10,085	
Midwest	11,696	8,046	7,487	7,758	34,987	12,082	6,892	6,544	
West	9,236	6,681	6,458	6,822	29,197	11,238	6,580	8,135	

Pharmacy Director									
	2019					2020			
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	
Northeast	29	13	14	17	73	31	17	5	
South	101	51	58	52	262	84	48	34	
Midwest	54	54	32	46	186	53	25	21	
West	102	103	88	74	367	108	42	59	

Pharmacy Demand Report (PDR)

Clinical Pharmacist

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	4	3	3	7	17	1.77	5	0	2
Alaska	1,083	4	1	1	0	6	5.54	7	1	1
Arizona	11,461	46	28	35	24	133	11.60	37	18	25
Arkansas	6,169	11	4	3	10	28	4.54	4	4	10
California	44,864	206	216	169	276	867	19.33	342	108	218
Colorado	8,351	50	25	6	26	107	12.81	31	6	25
Connecticut	5,545	21	21	36	33	111	20.02	65	30	28
Delaware	2,208	5	0	1	4	10	4.53	5	0	6
District of Columbia	1,886	7	1	5	5	18	9.54	5	3	7
Florida	37,366	126	113	108	127	474	12.69	204	24	142
Georgia	15,216	33	19	23	44	119	7.82	73	16	46
Hawaii	2,763	0	3	1	0	4	1.45	2	4	2
Idaho	2,399	1	2	4	4	11	4.59	15	0	6
Illinois	18,184	64	49	49	64	226	12.43	73	19	38
Indiana	10,817	18	13	11	29	71	6.56	32	13	15
Iowa	11,521	6	2	7	9	24	2.08	12	5	14
Kansas	6,533	8	7	5	6	26	3.98	15	3	7
Kentucky	9,889	21	17	18	27	83	8.39	27	5	23
Louisiana	8,780	4	2	6	19	31	3.53	21	5	17
Maine	2,284	3	2	1	4	10	4.38	5	3	8
Maryland	11,700	20	16	14	30	80	6.84	38	18	24
Massachusetts	13,259	37	24	23	29	113	8.52	44	10	35
Michigan	15,719	40	35	26	26	127	8.08	32	7	23
Minnesota	8,911	40	35	24	30	129	14.48	41	11	36
Mississippi	6,211	2	2	0	1	5	0.81	0	6	1
Missouri	10,770	26	11	16	27	80	7.43	55	11	30
Montana	2,104	2	2	0	1	5	2.38	2	0	1
Nebraska	5,158	5	2	0	5	12	2.33	4	2	1
Nevada	7,721	15	7	23	19	64	8.29	19	3	20
New Hampshire	2,780	2	0	1	5	8	2.88	2	1	15
New Jersey	17,656	25	15	13	22	75	4.25	34	18	21
New Mexico	3,027	18	7	8	7	40	13.21	7	3	9
New York	27,113	27	22	30	41	120	4.43	56	13	39
North Carolina	16,517	28	15	14	22	79	4.78	34	9	28
North Dakota	2,257	1	0	0	1	2	0.89	1	0	1
Ohio	20,349	47	41	48	56	192	9.44	120	15	43
Oklahoma	7,074	7	17	4	6	34	4.81	6	0	3
Oregon	8,019	6	3	6	8	23	2.87	16	3	1
Pennsylvania	22,781	66	28	28	26	148	6.50	58	37	33
Puerto Rico	5,340	2	0	0	0	2	0.37	1	1	0
Rhode Island	2,185	10	7	12	10	39	17.85	11	3	11
South Carolina	9,045	10	14	9	9	42	4.64	12	9	15
South Dakota	2,080	2	1	0	1	4	1.92	1	0	1
Tennessee	12,180	18	9	15	24	66	5.42	22	4	15
Texas	46,835	89	85	77	107	358	7.64	150	33	98
Utah	3,270	31	10	13	14	68	20.80	21	14	3
Vermont	1,180	4	0	0	2	6	5.08	1	0	1
Virginia	14,976	18	7	9	33	67	4.47	29	8	44
Washington	10,490	28	13	25	18	84	8.01	33	16	18
West Virginia	4,780	4	0	1	5	10	2.09	5	0	6
Wisconsin	5,834	27	8	9	19	63	10.80	20	7	15
Wyoming	1,407	1	0	0	0	1	0.71	0	0	1

Pharmacy Demand Report (PDR)

Clinical Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			Quarter 1			Quarter 2		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	289	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	122	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	46	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	212	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	70	Much Higher than National Average	Sacramento-Roseville-Arden-Arcade, CA	25	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	194	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	68	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	24	Lower than National Average
New York-Newark-Jersey City, NY-NJ-PA	143	Much Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	59	Much Lower than National Average	Chicago-Naperville-Elgin, IL-IN-WI	23	Higher than National Average
San Diego-Carlsbad, CA	126	Much Higher than National Average	San Diego-Carlsbad, CA	48	Much Higher than National Average	New Haven, CT	18	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	124	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	48	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	18	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	109	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	47	Similar to National Average	Baltimore-Columbia-Towson, MD	15	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	108	Higher than National Average	St. Louis, MO-IL	45	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	15	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	106	Similar to National Average	Orlando-Kissimmee-Sanford, FL	43	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	14	Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	93	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	39	Similar to National Average	Houston-The Woodlands-Sugar Land, TX	13	Similar to National Average
Riverside-San Bernardino-Ontario, CA	91	Much Higher than National Average	Cleveland-Eljria, OH	39	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	12	Similar to National Average
Orlando-Kissimmee-Sanford, FL	91	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	38	Similar to National Average	Salt Lake City, UT	12	Much Higher than National Average
Boston-Cambridge-Nashua, MA-NH	85	Similar to National Average	San Francisco-Oakland-Hayward, CA	37	Similar to National Average	San Francisco-Oakland-Hayward, CA	12	Higher than National Average
Detroit-Warren-Dearborn, MI	80	Higher than National Average	Boston-Cambridge-Nashua, MA-NH	35	Similar to National Average	San Diego-Carlsbad, CA	11	Much Higher than National Average
Denver-Aurora-Lakewood, CO	76	Much Higher than National Average	Baltimore-Columbia-Towson, MD	35	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	10	Similar to National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	71	Lower than National Average	New Haven, CT	31	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	10	Higher than National Average
Cincinnati, OH-KY-IN	71	Much Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	30	Much Higher than National Average	Pittsburgh, PA	10	Much Higher than National Average
New Haven, CT	70	Much Higher than National Average	Sacramento-Roseville-Arden-Arcade, CA	30	Much Higher than National Average	St. Louis, MO-IL	9	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	68	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	29	Similar to National Average	Harrisburg-Carlisle, PA	7	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	67	Similar to National Average	Minneapolis-St. Paul-Bloomington, MN-WI	29	Similar to National Average	Hartford-West Hartford-East Hartford, CT	7	Much Higher than National Average
Baltimore-Columbia-Towson, MD	65	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	28	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	6	Lower than National Average
St. Louis, MO-IL	58	Higher than National Average	San Antonio-New Braunfels, TX	27	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	6	Higher than National Average
San Antonio-New Braunfels, TX	58	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	27	Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	6	Much Lower than National Average
Sacramento-Roseville-Arden-Arcade, CA	58	Much Higher than National Average	Cincinnati, OH-KY-IN	27	Much Higher than National Average	Charlotte-Concord-Gastonia, NC-SC	5	Similar to National Average
Atlanta-Sandy Springs-Roswell, GA	58	Lower than National Average	Denver-Aurora-Lakewood, CO	22	Similar to National Average	Cincinnati, OH-KY-IN	5	Higher than National Average
Quarter 3								
Metro Area	Job Postings	Location Quotient						
Los Angeles-Long Beach-Anaheim, CA	94	Much Higher than National Average						
Miami-Fort Lauderdale-West Palm Beach, FL	53	Much Higher than National Average						
New York-Newark-Jersey City, NY-NJ-PA	37	Much Lower than National Average						
Chicago-Naperville-Elgin, IL-IN-WI	36	Similar to National Average						
Orlando-Kissimmee-Sanford, FL	34	Much Higher than National Average						
Boston-Cambridge-Nashua, MA-NH	29	Higher than National Average						
Dallas-Fort Worth-Arlington, TX	28	Similar to National Average						
Minneapolis-St. Paul-Bloomington, MN-WI	27	Much Higher than National Average						
Houston-The Woodlands-Sugar Land, TX	27	Similar to National Average						
San Francisco-Oakland-Hayward, CA	25	Higher than National Average						
Sacramento-Roseville-Arden-Arcade, CA	25	Much Higher than National Average						
Atlanta-Sandy Springs-Roswell, GA	25	Similar to National Average						
Baltimore-Columbia-Towson, MD	22	Much Higher than National Average						
Washington-Arlington-Alexandria, DC-VA-MD-WV	21	Lower than National Average						
Tampa-St. Petersburg-Clearwater, FL	20	Much Higher than National Average						
Cincinnati, OH-KY-IN	19	Much Higher than National Average						
St. Louis, MO-IL	18	Much Higher than National Average						
Phoenix-Mesa-Scottsdale, AZ	18	Similar to National Average						
San Diego-Carlsbad, CA	17	Higher than National Average						
San Antonio-New Braunfels, TX	17	Much Higher than National Average						
Seattle-Tacoma-Bellevue, WA	16	Similar to National Average						
Louisville/Jefferson County, KY-IN	16	Much Higher than National Average						
Virginia Beach-Norfolk-Newport News, VA-NC	15	Much Higher than National Average						
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Lower than National Average						
Denver-Aurora-Lakewood, CO	15	Similar to National Average						

Pharmacy Demand Report (PDR)

Hospital Pharmacist

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	6	1	1	0	8	0.83	0	0	0
Alaska	1,083	14	3	6	0	23	21.24	1	0	1
Arizona	11,461	9	8	3	8	28	2.44	21	3	14
Arkansas	6,169	0	1	13	0	14	2.27	0	0	0
California	44,864	125	89	90	55	359	8.00	88	48	21
Colorado	8,351	5	2	17	2	26	3.11	11	1	4
Connecticut	5,545	5	2	13	10	30	5.41	5	4	3
Delaware	2,208	0	0	0	0	0	0.00	0	0	0
District of Columbia	1,886	0	0	0	0	0	0.00	0	0	0
Florida	37,366	23	7	3	7	40	1.07	18	20	15
Georgia	15,216	10	10	10	9	39	2.56	7	10	10
Hawaii	2,763	4	9	3	1	17	6.15	2	0	0
Idaho	2,399	1	1	1	0	3	1.25	0	0	0
Illinois	18,184	14	12	8	16	50	2.75	19	11	4
Indiana	10,817	7	0	1	1	9	0.83	7	1	1
Iowa	11,521	2	0	0	3	5	0.43	0	0	0
Kansas	6,533	6	1	0	0	7	1.07	0	0	0
Kentucky	9,889	4	3	3	1	11	1.11	8	6	0
Louisiana	8,780	3	19	16	16	54	6.15	16	14	2
Maine	2,284	1	3	6	7	17	7.44	6	0	1
Maryland	11,700	2	3	2	10	17	1.45	8	6	4
Massachusetts	13,259	7	5	2	1	15	1.13	2	3	4
Michigan	15,719	9	4	1	5	19	1.21	10	5	2
Minnesota	8,911	31	16	4	5	56	6.28	3	7	4
Mississippi	6,211	1	1	0	0	2	0.32	0	0	0
Missouri	10,770	32	17	5	3	57	5.29	5	1	1
Montana	2,104	1	1	1	0	3	1.43	1	1	1
Nebraska	5,158	2	1	0	4	7	1.36	9	1	0
Nevada	7,721	35	7	7	3	52	6.73	4	2	2
New Hampshire	2,780	0	0	0	0	0	0.00	0	0	0
New Jersey	17,656	8	3	5	7	23	1.30	8	2	5
New Mexico	3,027	0	5	6	1	12	3.96	7	4	7
New York	27,113	24	9	4	7	44	1.62	14	7	4
North Carolina	16,517	6	2	6	4	18	1.09	3	4	2
North Dakota	2,257	2	1	0	0	3	1.33	0	0	0
Ohio	20,349	24	33	21	24	102	5.01	11	4	5
Oklahoma	7,074	2	9	0	0	11	1.55	5	2	2
Oregon	8,019	8	7	2	0	17	2.12	0	2	1
Pennsylvania	22,781	7	7	4	5	23	1.01	20	1	2
Puerto Rico	5,340	0	0	0	0	0	0.00	0	0	0
Rhode Island	2,185	0	0	0	1	1	0.46	2	0	0
South Carolina	9,045	6	3	1	1	11	1.22	4	2	4
South Dakota	2,080	0	0	2	0	2	0.96	0	0	0
Tennessee	12,180	2	0	0	0	2	0.16	1	1	0
Texas	46,835	43	12	47	18	120	2.56	40	7	20
Utah	3,270	3	0	0	1	4	1.22	2	0	0
Vermont	1,180	1	0	0	0	1	0.85	0	0	0
Virginia	14,976	3	2	1	0	6	0.40	2	0	1
Washington	10,490	23	20	3	6	52	4.96	17	7	4
West Virginia	4,780	0	0	1	0	1	0.21	0	0	0
Wisconsin	5,834	36	10	9	9	64	10.97	18	4	1
Wyoming	1,407	2	3	0	1	6	4.26	1	0	0

Pharmacy Demand Report (PDR)

Hospital Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			Quarter 1			Quarter 2		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
San Francisco-Oakland-Hayward, CA	98	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	26	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	13	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	76	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	19	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	12	Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	45	Similar to National Average	Los Angeles-Long Beach-Anaheim, CA	19	Similar to National Average	San Francisco-Oakland-Hayward, CA	10	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	43	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	18	Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	10	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	40	Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	16	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	7	Much Lower than National Average
Dayton, OH	37	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	13	Much Higher than National Average	Jacksonville, FL	5	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	34	Much Lower than National Average	Seattle-Tacoma-Bellevue, WA	11	Much Higher than National Average	Baltimore-Columbia-Towson, MD	5	Much Higher than National Average
Las Vegas-Henderson-Paradise, NV	33	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	10	Much Lower than National Average	Atlanta-Sandy Springs-Roswell, GA	5	Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	31	Much Lower than National Average	Houston-The Woodlands-Sugar Land, TX	9	Similar to National Average	Shreveport-Bossier City, LA	4	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	27	Lower than National Average	Orlando-Kissimmee-Sanford, FL	8	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	4	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	23	Similar to National Average	Denver-Aurora-Lakewood, CO	8	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	4	Much Higher than National Average
Columbus, OH	20	Much Higher than National Average	South Bend-Mishawaka, IN-MI	7	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	4	Much Higher than National Average
St. Louis, MO-IL	19	Higher than National Average	Baltimore-Columbia-Towson, MD	7	Much Higher than National Average	Louisville/Jefferson County, KY-IN	4	Much Higher than National Average
Austin-Round Rock, TX	19	Much Higher than National Average	Austin-Round Rock, TX	7	Much Higher than National Average	Lake Charles, LA	4	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	18	Much Lower than National Average	San Antonio-New Braunfels, TX	6	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	4	Similar to National Average
Minneapolis-St. Paul-Bloomington, MN-WI	18	Similar to National Average	Milwaukee-Waukesha-West Allis, WI	6	Much Higher than National Average	Albuquerque, NM	4	Much Higher than National Average
San Diego-Carlsbad, CA	17	Similar to National Average	Dallas-Fort Worth-Arlington, TX	6	Much Lower than National Average	Raleigh, NC	3	Much Higher than National Average
Denver-Aurora-Lakewood, CO	17	Similar to National Average	Albuquerque, NM	6	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	3	Similar to National Average
Anchorage, AK	17	Much Higher than National Average	Albany-Schenectady-Troy, NY	6	Much Higher than National Average	New Orleans-Metairie, LA	3	Much Higher than National Average
San Jose-Sunnyvale-Santa Clara, CA	16	Higher than National Average	Midland, TX	5	Much Higher than National Average	New Haven, CT	3	Much Higher than National Average
Jefferson City, MO	16	Much Higher than National Average	Lexington-Fayette, KY	5	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	3	Similar to National Average
Milwaukee-Waukesha-West Allis, WI	15	Much Higher than National Average	Lewiston-Auburn, ME	5	Much Higher than National Average	Gainesville, FL	3	Much Higher than National Average
Janesville-Beloit, WI	15	Much Higher than National Average	Lake Charles, LA	5	Much Higher than National Average	Duluth, MN-WI	3	Much Higher than National Average
Baltimore-Columbia-Towson, MD	15	Similar to National Average	Cleveland-Elyria, OH	5	Much Higher than National Average	Detroit-Warren-Dearborn, MI	3	Similar to National Average
Urban Honolulu, HI	14	Much Higher than National Average	St. Louis, MO-IL	4	Similar to National Average	Cleveland-Elyria, OH	3	Much Higher than National Average
Quarter 3								
Metro Area	Job Postings	Location Quotient						
Dallas-Fort Worth-Arlington, TX	17	Much Higher than National Average						
Phoenix-Mesa-Scottsdale, AZ	9	Much Higher than National Average						
Orlando-Kissimmee-Sanford, FL	7	Much Higher than National Average						
New York-Newark-Jersey City, NY-NJ-PA	7	Lower than National Average						
Sacramento--Roseville--Arden-Arcade, CA	6	Much Higher than National Average						
Tucson, AZ	5	Much Higher than National Average						
Albuquerque, NM	5	Much Higher than National Average						
Hilton Head Island-Bluffton-Beaufort, SC	4	Much Higher than National Average						
Baltimore-Columbia-Towson, MD	4	Much Higher than National Average						
Seattle-Tacoma-Bellevue, WA	3	Higher than National Average						
San Francisco-Oakland-Hayward, CA	3	Similar to National Average						
Los Angeles-Long Beach-Anaheim, CA	3	Much Lower than National Average						
Duluth, MN-WI	3	Much Higher than National Average						
Denver-Aurora-Lakewood, CO	3	Much Higher than National Average						
Cape Coral-Fort Myers, FL	3	Much Higher than National Average						
Bridgeport-Stamford-Norwalk, CT	3	Much Higher than National Average						
Augusta-Richmond County, GA-SC	3	Much Higher than National Average						
Youngstown-Warren-Boardman, OH-PA	2	Much Higher than National Average						
Vineland-Bridgeton, NJ	2	Much Higher than National Average						
San Diego-Carlsbad, CA	2	Higher than National Average						
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	2	Lower than National Average						
Oxnard-Thousand Oaks-Ventura, CA	2	Much Higher than National Average						
Macon, GA	2	Much Higher than National Average						
Las Vegas-Henderson-Paradise, NV	2	Much Higher than National Average						
Lake Charles, LA	2	Much Higher than National Average						

Pharmacy Demand Report (PDR)

Other Pharmacist Occupations

(Compounding, Informatics, Infusion, Long-Term Care, Nuclear Pharmacist, Oncology)

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	28	3	1	1	33	3.44	4	0	2
Alaska	1,083	0	3	1	0	4	3.69	1	0	0
Arizona	11,461	39	16	14	8	77	6.72	18	9	12
Arkansas	6,169	3	0	1	7	11	1.78	5	3	0
California	44,864	117	110	111	101	439	9.79	148	94	76
Colorado	8,351	15	42	5	9	71	8.50	16	12	13
Connecticut	5,545	21	22	14	5	62	11.18	11	3	11
Delaware	2,208	1	1	1	0	3	1.36	0	0	1
District of Columbia	1,886	2	1	0	0	3	1.59	2	0	1
Florida	37,366	79	43	37	30	189	5.06	61	26	30
Georgia	15,216	14	19	8	14	55	3.61	23	9	15
Hawaii	2,763	3	3	0	1	7	2.53	4	1	0
Idaho	2,399	8	6	4	4	22	9.17	8	1	6
Illinois	18,184	66	58	42	23	189	10.39	38	15	10
Indiana	10,817	21	8	15	17	61	5.64	24	13	5
Iowa	11,521	9	0	2	2	13	1.13	2	0	1
Kansas	6,533	19	11	17	12	59	9.03	6	8	1
Kentucky	9,889	13	5	4	5	27	2.73	10	4	2
Louisiana	8,780	6	7	3	34	50	5.69	36	2	4
Maine	2,284	1	3	4	2	10	4.38	3	2	1
Maryland	11,700	16	11	7	9	43	3.68	7	9	13
Massachusetts	13,259	17	23	11	12	63	4.75	21	11	13
Michigan	15,719	53	27	53	44	177	11.26	72	31	16
Minnesota	8,911	18	6	5	3	32	3.59	9	7	5
Mississippi	6,211	0	2	4	0	6	0.97	1	3	0
Missouri	10,770	27	14	7	32	80	7.43	35	7	12
Montana	2,104	2	20	3	4	29	13.78	9	0	2
Nebraska	5,158	3	2	0	0	5	0.97	3	0	0
Nevada	7,721	14	7	4	5	30	3.89	21	7	7
New Hampshire	2,780	2	1	3	1	7	2.52	7	3	5
New Jersey	17,656	31	23	28	24	106	6.00	50	30	6
New Mexico	3,027	18	4	1	7	30	9.91	8	5	1
New York	27,113	75	31	25	29	160	5.90	48	8	15
North Carolina	16,517	11	6	2	14	33	2.00	17	4	17
North Dakota	2,257	0	1	0	0	1	0.44	0	1	0
Ohio	20,349	31	34	52	43	160	7.86	139	21	38
Oklahoma	7,074	7	4	5	3	19	2.69	8	5	6
Oregon	8,019	27	10	12	2	51	6.36	6	2	1
Pennsylvania	22,781	61	20	14	17	112	4.92	44	30	14
Puerto Rico	5,340	0	0	0	4	4	0.75	2	0	0
Rhode Island	2,185	0	1	0	0	1	0.46	8	2	1
South Carolina	9,045	11	9	8	9	37	4.09	3	4	2
South Dakota	2,080	0	1	0	1	2	0.96	2	1	0
Tennessee	12,180	9	5	1	8	23	1.89	6	1	5
Texas	46,835	52	29	24	41	146	3.12	62	22	18
Utah	3,270	5	9	4	3	21	6.42	8	2	2
Vermont	1,180	0	1	0	0	1	0.85	1	0	0
Virginia	14,976	12	14	2	4	32	2.14	6	1	6
Washington	10,490	36	19	28	23	106	10.10	22	11	4
West Virginia	4,780	1	0	0	0	1	0.21	0	0	1
Wisconsin	5,834	22	8	5	3	38	6.51	5	8	2
Wyoming	1,407	0	2	0	0	2	1.42	2	0	0

Pharmacy Demand Report (PDR)

Other Pharmacist Occupations

(Compounding, Informatics, Infusion, Long-Term Care, Nuclear Pharmacist, Oncology)

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			Quarter 1			Quarter 2		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	183	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	76	Similar to National Average	Los Angeles-Long Beach-Anaheim, CA	33	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	170	Much Higher than National Average	Cleveland-Elyria, OH	74	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	30	Similar to National Average
Detroit-Warren-Dearborn, MI	101	Much Higher than National Average	Detroit-Warren-Dearborn, MI	51	Much Higher than National Average	Detroit-Warren-Dearborn, MI	29	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	98	Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	40	Similar to National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	19	Much Higher than National Average
Kansas City, MO-KS	97	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	34	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	17	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	90	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	32	Much Higher than National Average	San Diego-Carlsbad, CA	16	Much Higher than National Average
San Diego-Carlsbad, CA	76	Much Higher than National Average	San Diego-Carlsbad, CA	31	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	16	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	73	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	28	Higher than National Average	Cleveland-Elyria, OH	14	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	72	Much Higher than National Average	Sacramento-Roseville-Arden-Arcade, CA	21	Much Higher than National Average	Sacramento-Roseville-Arden-Arcade, CA	13	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	64	Much Higher than National Average	St. Louis, MO-IL	20	Much Higher than National Average	Denver-Aurora-Lakewood, CO	12	Much Higher than National Average
Cleveland-Elyria, OH	60	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	20	Lower than National Average	Chicago-Naperville-Elgin, IL-IN-WI	10	Lower than National Average
Sacramento-Roseville-Arden-Arcade, CA	58	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	20	Similar to National Average	Seattle-Tacoma-Bellevue, WA	9	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	52	Similar to National Average	Baton Rouge, LA	20	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	8	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	44	Much Lower than National Average	Houston-The Woodlands-Sugar Land, TX	19	Similar to National Average	Kansas City, MO-KS	8	Much Higher than National Average
Cincinnati, OH-KY-IN	44	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	18	Higher than National Average	Dallas-Fort Worth-Arlington, TX	8	Lower than National Average
Portland-Vancouver-Hillsboro, OR-WA	41	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	18	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	8	Similar to National Average
Boston-Cambridge-Nashua, MA-NH	41	Lower than National Average	Atlanta-Sandy Springs-Roswell, GA	18	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	8	Similar to National Average
Riverside-San Bernardino-Ontario, CA	40	Higher than National Average	Akron, OH	18	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	7	Lower than National Average
San Francisco-Oakland-Hayward, CA	39	Lower than National Average	San Francisco-Oakland-Hayward, CA	17	Similar to National Average	Baltimore-Columbia-Towson, MD	7	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	38	Higher than National Average	Kansas City, MO-KS	16	Much Higher than National Average	Pittsburgh, PA	6	Much Higher than National Average
St. Louis, MO-IL	37	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	14	Similar to National Average	Las Vegas-Henderson-Paradise, NV	6	Much Higher than National Average
Denver-Aurora-Lakewood, CO	37	Higher than National Average	Ann Arbor, MI	14	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	5	Similar to National Average
Atlanta-Sandy Springs-Roswell, GA	36	Lower than National Average	Denver-Aurora-Lakewood, CO	13	Similar to National Average	Oklahoma City, OK	5	Much Higher than National Average
Pittsburgh, PA	34	Higher than National Average	Pittsburgh, PA	11	Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	5	Similar to National Average
New Haven, CT	31	Much Higher than National Average	Louisville/Jefferson County, KY-IN	10	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	5	Much Higher than National Average

Quarter 3		
Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	28	Much Higher than National Average
Sacramento-Roseville-Arden-Arcade, CA	21	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	16	Much Higher than National Average
Youngstown-Warren-Boardman, OH-PA	15	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	12	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	12	Much Lower than National Average
Boston-Cambridge-Nashua, MA-NH	11	Higher than National Average
Detroit-Warren-Dearborn, MI	10	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	9	Similar to National Average
Cleveland-Elyria, OH	9	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	9	Lower than National Average
Baltimore-Columbia-Towson, MD	9	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	9	Higher than National Average
San Diego-Carlsbad, CA	8	Much Higher than National Average
Denver-Aurora-Lakewood, CO	8	Much Higher than National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	7	Lower than National Average
St. Louis, MO-IL	7	Much Higher than National Average
San Jose-Sunnyvale-Santa Clara, CA	7	Much Higher than National Average
Las Vegas-Henderson-Paradise, NV	7	Much Higher than National Average
New Haven, CT (Metropolitan NECTA)	6	Much Higher than National Average
Buffalo-Cheektowaga-Niagara Falls, NY	6	Much Higher than National Average
Boise City, ID	6	Much Higher than National Average
Greensboro-High Point, NC	5	Much Higher than National Average
Charlotte-Concord-Gastonia, NC-SC	5	Much Higher than National Average

Pharmacy Demand Report (PDR)

Pharmacy Director

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	1	1	1	2	5	0.52	1	0	0
Alaska	1,083	2	0	1	1	4	3.69	2	0	0
Arizona	11,461	5	6	3	8	22	1.92	17	5	0
Arkansas	6,169	2	0	1	1	4	0.65	4	0	0
California	44,864	64	66	51	45	226	5.04	57	20	47
Colorado	8,351	1	3	8	2	14	1.68	7	2	1
Connecticut	5,545	1	0	1	0	2	0.36	0	1	1
Delaware	2,208	0	0	0	0	0	0.00	1	0	0
District of Columbia	1,886	0	1	0	0	1	0.53	2	1	0
Florida	37,366	12	6	12	10	40	1.07	12	5	8
Georgia	15,216	6	0	0	0	6	0.39	3	2	0
Hawaii	2,763	0	0	1	1	2	0.72	4	0	0
Idaho	2,399	0	3	1	3	7	2.92	4	3	1
Illinois	18,184	7	15	7	7	36	1.98	3	5	1
Indiana	10,817	1	3	1	6	11	1.02	4	3	2
Iowa	11,521	4	0	4	1	9	0.78	1	0	1
Kansas	6,533	2	2	0	0	4	0.61	2	0	1
Kentucky	9,889	5	6	0	2	13	1.31	7	4	2
Louisiana	8,780	19	8	3	4	34	3.87	3	0	2
Maine	2,284	0	0	0	0	0	0.00	0	0	0
Maryland	11,700	0	2	8	9	19	1.62	5	0	0
Massachusetts	13,259	4	6	0	2	12	0.91	4	4	1
Michigan	15,719	22	18	9	7	56	3.56	13	5	1
Minnesota	8,911	3	2	1	1	7	0.79	2	0	0
Mississippi	6,211	1	0	0	0	1	0.16	0	0	0
Missouri	10,770	5	3	4	3	15	1.39	4	0	1
Montana	2,104	0	0	0	0	0	0.00	0	0	0
Nebraska	5,158	1	0	2	6	9	1.74	1	1	2
Nevada	7,721	2	4	3	3	12	1.55	6	1	5
New Hampshire	2,780	1	1	0	0	2	0.72	0	2	0
New Jersey	17,656	9	2	9	7	27	1.53	7	2	0
New Mexico	3,027	2	0	1	1	4	1.32	1	3	1
New York	27,113	5	2	1	3	11	0.41	5	0	2
North Carolina	16,517	9	4	4	3	20	1.21	4	3	3
North Dakota	2,257	0	1	1	0	2	0.89	0	0	2
Ohio	20,349	7	7	1	10	25	1.23	15	7	7
Oklahoma	7,074	2	2	1	1	6	0.85	2	0	0
Oregon	8,019	4	6	9	3	22	2.74	4	3	3
Pennsylvania	22,781	5	2	3	5	15	0.66	15	8	1
Puerto Rico	5,340	2	0	0	0	2	0.37	0	0	1
Rhode Island	2,185	4	0	0	0	4	1.83	0	0	0
South Carolina	9,045	3	2	0	1	6	0.66	2	4	0
South Dakota	2,080	0	0	0	0	0	0.00	0	0	0
Tennessee	12,180	5	2	3	0	10	0.82	0	1	7
Texas	46,835	27	14	22	14	77	1.64	31	22	12
Utah	3,270	0	0	1	1	2	0.61	0	1	0
Vermont	1,180	0	0	0	0	0	0.00	0	0	0
Virginia	14,976	5	2	3	2	12	0.80	4	5	0
Washington	10,490	21	14	9	6	50	4.77	6	4	1
West Virginia	4,780	4	1	0	3	8	1.67	3	1	0
Wisconsin	5,834	2	3	2	5	12	2.06	8	4	3
Wyoming	1,407	1	1	0	0	2	1.42	0	0	0

Pharmacy Demand Report (PDR)

Pharmacy Director

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			Quarter 1			Quarter 2		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	84	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	26	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	7	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	36	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	6	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	36	Much Lower than National Average	Phoenix-Mesa-Scottsdale, AZ	14	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	6	Similar to National Average
Riverside-San Bernardino-Ontario, CA	30	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	10	Much Lower than National Average	Phoenix-Mesa-Scottsdale, AZ	5	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	29	Much Higher than National Average	San Diego-Carlsbad, CA	8	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	5	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	27	Similar to National Average	Dayton, OH	7	Much Higher than National Average	Corpus Christi, TX	5	Much Higher than National Average
Detroit-Warren-Dearborn, MI	24	Much Higher than National Average	Corpus Christi, TX	7	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	5	Similar to National Average
Sacramento-Roseville-Arden-Arcade, CA	20	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	6	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	4	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	20	Similar to National Average	San Francisco-Oakland-Hayward, CA	6	Higher than National Average	San Antonio-New Braunfels, TX	4	Much Higher than National Average
Baltimore-Columbia-Towson, MD	19	Much Higher than National Average	San Antonio-New Braunfels, TX	6	Much Higher than National Average	Modesto, CA	4	Much Higher than National Average
Portland-Vancouver-Hillsboro, OR-WA	18	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	6	Much Higher than National Average	South Bend-Mishawaka, IN-MI	3	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	18	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	6	Higher than National Average	Madison, WI	3	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	17	Higher than National Average	Houston-The Woodlands-Sugar Land, TX	6	Similar to National Average	Lansing-East Lansing, MI	3	Much Higher than National Average
New Orleans-Metairie, LA	16	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	6	Lower than National Average	Houston-The Woodlands-Sugar Land, TX	3	Similar to National Average
Miami-Fort Lauderdale-West Palm Beach, FL	16	Similar to National Average	Riverside-San Bernardino-Ontario, CA	5	Much Higher than National Average	Columbus, OH	3	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	14	Lower than National Average	Louisville/Jefferson County, KY-IN	5	Much Higher than National Average	Cincinnati, OH-KY-IN	3	Much Higher than National Average
San Antonio-New Braunfels, TX	12	Much Higher than National Average	Detroit-Warren-Dearborn, MI	5	Higher than National Average	Boston-Cambridge-Nashua, MA-NH	3	Higher than National Average
Grand Rapids-Wyoming, MI	12	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	5	Lower than National Average	Boise City, ID	3	Much Higher than National Average
St. Louis, MO-IL	11	Higher than National Average	Baltimore-Columbia-Towson, MD	5	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	2	Similar to National Average
Oxnard-Thousand Oaks-Ventura, CA	11	Much Higher than National Average	Austin-Round Rock, TX	5	Much Higher than National Average	San Diego-Carlsbad, CA	2	Higher than National Average
Cleveland-Elyria, OH	11	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	4	Much Higher than National Average	Raleigh, NC	2	Much Higher than National Average
Boston-Cambridge-Nashua, MA-NH	11	Lower than National Average	Orlando-Kissimmee-Sanford, FL	4	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	2	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	10	Higher than National Average	Las Vegas-Henderson-Paradise, NV	4	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	2	Much Higher than National Average
Fresno, CA	10	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	4	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	2	Much Lower than National Average
Tampa-St. Petersburg-Clearwater, FL	9	Similar to National Average	Boise City, ID	4	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	2	Similar to National Average
Quarter 3								
Metro Area	Job Postings	Location Quotient						
San Francisco-Oakland-Hayward, CA	8	Much Higher than National Average						
San Diego-Carlsbad, CA	8	Much Higher than National Average						
Los Angeles-Long Beach-Anaheim, CA	7	Higher than National Average						
Tampa-St. Petersburg-Clearwater, FL	5	Much Higher than National Average						
Sacramento-Roseville-Arden-Arcade, CA	4	Much Higher than National Average						
Las Vegas-Henderson-Paradise, NV	4	Much Higher than National Average						
Dallas-Fort Worth-Arlington, TX	4	Higher than National Average						
Bakersfield, CA	4	Much Higher than National Average						
Stockton-Lodi, CA	3	Much Higher than National Average						
Nashville-Davidson-Murfreesboro-Franklin, TN	3	Much Higher than National Average						
Modesto, CA	3	Much Higher than National Average						
Houston-The Woodlands-Sugar Land, TX	3	Similar than National Average						
Santa Rosa, CA	2	Much Higher than National Average						
San Antonio-New Braunfels, TX	2	Much Higher than National Average						
Oxnard-Thousand Oaks-Ventura, CA	2	Much Higher than National Average						
Omaha-Council Bluffs, NE-IA	2	Much Higher than National Average						
New York-Newark-Jersey City, NY-NJ-PA	2	Much Lower than National Average						
Fresno, CA	2	Much Higher than National Average						
Fargo, ND-MN	2	Much Higher than National Average						
Dayton, OH	2	Much Higher than National Average						
Corpus Christi, TX	2	Much Higher than National Average						
Columbus, OH	2	Much Higher than National Average						
Cincinnati, OH-KY-IN	2	Much Higher than National Average						
York-Hanover, PA	1	Much Higher than National Average						
Tallahassee, FL	1	Much Higher than National Average						

Pharmacy Demand Report (PDR)

Retail Pharmacist

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	19	1	6	8	34	3.55	8	2	12
Alaska	1,083	22	3	3	3	31	28.62	3	2	3
Arizona	11,461	58	60	59	64	241	21.03	86	29	29
Arkansas	6,169	0	1	2	6	9	1.46	6	2	3
California	44,864	253	191	172	159	775	17.27	321	150	83
Colorado	8,351	33	20	18	23	94	11.26	41	21	12
Connecticut	5,545	12	19	6	10	47	8.48	9	3	4
Delaware	2,208	2	0	3	2	7	3.17	1	0	1
District of Columbia	1,886	5	4	6	1	16	8.48	2	3	0
Florida	37,366	97	54	35	65	251	6.72	106	54	100
Georgia	15,216	44	22	26	43	135	8.87	33	29	44
Hawaii	2,763	2	1	0	0	3	1.09	0	1	1
Idaho	2,399	8	10	3	5	26	10.84	6	5	6
Illinois	18,184	63	28	53	27	171	9.40	41	23	13
Indiana	10,817	50	9	7	23	89	8.23	21	8	12
Iowa	11,521	12	9	5	4	30	2.60	4	3	0
Kansas	6,533	11	41	8	12	72	11.02	12	10	5
Kentucky	9,889	20	15	3	12	50	5.06	26	9	0
Louisiana	8,780	7	10	14	12	43	4.90	18	12	5
Maine	2,284	4	4	4	3	15	6.57	4	2	2
Maryland	11,700	16	13	7	9	45	3.85	15	6	6
Massachusetts	13,259	26	25	16	15	82	6.18	26	11	9
Michigan	15,719	62	39	36	22	159	10.12	42	18	7
Minnesota	8,911	17	11	13	7	48	5.39	9	10	2
Mississippi	6,211	9	5	5	2	21	3.38	6	1	1
Missouri	10,770	21	30	8	27	86	7.99	36	9	11
Montana	2,104	9	16	2	8	35	16.63	12	2	1
Nebraska	5,158	9	17	12	12	50	9.69	25	5	7
Nevada	7,721	12	14	17	13	56	7.25	32	17	17
New Hampshire	2,780	2	4	4	12	22	7.91	13	4	6
New Jersey	17,656	37	26	42	37	142	8.04	44	34	21
New Mexico	3,027	8	13	6	11	38	12.55	16	2	4
New York	27,113	71	70	43	34	218	8.04	68	86	21
North Carolina	16,517	8	7	15	6	36	2.18	13	12	14
North Dakota	2,257	28	19	4	35	86	38.10	36	6	6
Ohio	20,349	70	55	52	38	215	10.57	75	29	19
Oklahoma	7,074	5	8	13	10	36	5.09	8	11	5
Oregon	8,019	40	23	12	13	88	10.97	23	16	5
Pennsylvania	22,781	68	83	65	72	288	12.64	116	57	27
Puerto Rico	5,340	0	2	1	3	6	1.12	1	0	0
Rhode Island	2,185	3	2	2	2	9	4.12	5	5	0
South Carolina	9,045	16	15	7	7	45	4.98	21	11	11
South Dakota	2,080	5	0	0	3	8	3.85	3	0	2
Tennessee	12,180	7	8	7	3	25	2.05	18	4	14
Texas	46,835	61	46	64	99	270	5.76	126	47	47
Utah	3,270	7	3	10	6	26	7.95	9	1	1
Vermont	1,180	5	1	2	0	8	6.78	0	0	1
Virginia	14,976	10	24	21	9	64	4.27	14	4	2
Washington	10,490	60	28	26	39	153	14.59	76	31	9
West Virginia	4,780	4	2	5	0	11	2.30	3	1	0
Wisconsin	5,834	46	7	9	13	75	12.86	34	16	3
Wyoming	1,407	6	3	4	2	15	10.66	2	2	1

Pharmacy Demand Report (PDR)

Retail Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			Quarter 1			Quarter 2		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	229	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	73	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	91	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	184	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	63	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	31	Similar to National Average
Chicago-Naperville-Elgin, IL-IN-WI	141	Similar to National Average	San Francisco-Oakland-Hayward, CA	51	Much Higher than National Average	Sacramento-Roseville-Arden-Arcade, CA	27	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	137	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	49	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	24	Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	115	Higher than national Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	47	Higher than national Average	San Francisco-Oakland-Hayward, CA	23	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	113	Much Lower than Nation Average	Sacramento-Roseville-Arden-Arcade, CA	43	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	20	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	93	Similar to National Average	Los Angeles-Long Beach-Anaheim, CA	43	Much Lower than Nation Average	Chicago-Naperville-Elgin, IL-IN-WI	20	Lower than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	86	Similar to National Average	Chicago-Naperville-Elgin, IL-IN-WI	38	Lower than National Average	Seattle-Tacoma-Bellevue, WA	19	Much Higher than National Average
Sacramento-Roseville-Arden-Arcade, CA	79	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	37	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	18	Higher than National Average
Seattle-Tacoma-Bellevue, WA	75	Similar to National Average	Pittsburgh, PA	34	Much Higher than National Average	Pittsburgh, PA	14	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	71	Lower than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	28	Similar to National Average	Orlando-Kissimmee-Sanford, FL	14	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	67	Lower than National Average	Milwaukee-Waukesha-West Allis, WI	26	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	13	Much Higher than National Average
Pittsburgh, PA	60	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	26	Similar to National Average	Houston-The Woodlands-Sugar Land, TX	13	Lower than National Average
Boston-Cambridge-Nashua, MA-NH	57	Lower than National Average	St. Louis, MO-IL	25	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	12	Higher than National Average
San Diego-Carlsbad, CA	53	Similar to National Average	Orlando-Kissimmee-Sanford, FL	22	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	12	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	51	Higher than national Average	Denver-Aurora-Lakewood, CO	22	Higher than national Average	Miami-Fort Lauderdale-West Palm Beach, FL	12	Lower than National Average
Milwaukee-Waukesha-West Allis, WI	50	Much Higher than National Average	San Diego-Carlsbad, CA	20	Similar to National Average	Dallas-Fort Worth-Arlington, TX	12	Much Lower than National Average
St. Louis, MO-IL	46	Similar to National Average	Cleveland-Elyria, OH	20	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	10	Much Higher than National Average
Fresno, CA	43	Much Higher than National Average	Cincinnati, OH-KY-IN	19	Much Higher than National Average	Denver-Aurora-Lakewood, CO	10	Similar to National Average
Detroit-Warren-Dearborn, MI	41	Lower than National Average	Stockton-Lodi, CA	18	Much Higher than National Average	Columbus, OH	9	Much Higher than National Average
Kansas City, MO-KS	39	Similar to National Average	Las Vegas-Henderson-Paradise, NV	18	Much Higher than National Average	Bakersfield, CA	9	Much Higher than National Average
Omaha-Council Bluffs, NE-IA	37	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	18	Much Lower than Nation Average	Salinas, CA	8	Much Higher than National Average
Cincinnati, OH-KY-IN	37	Similar to National Average	Riverside-San Bernardino-Ontario, CA	16	Similar to National Average	Raleigh, NC	8	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	36	Similar to National Average	Boston-Cambridge-Nashua, MA-NH	16	Much Lower than Nation Average	Detroit-Warren-Dearborn, MI	8	Lower than National Average
Cleveland-Elyria, OH	36	Similar to National Average	Fresno, CA	15	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	7	Much Lower than National Average
Quarter 3								
Metro Area	Job Postings	Location Quotient						
Orlando-Kissimmee-Sanford, FL	30	Much Higher than National Average						
New York-Newark-Jersey City, NY-NJ-PA	29	Lower than National Average						
Phoenix-Mesa-Scottsdale, AZ	24	Much Higher than National Average						
Los Angeles-Long Beach-Anaheim, CA	24	Similar to National Average						
Dallas-Fort Worth-Arlington, TX	22	Higher than National Average						
Atlanta-Sandy Springs-Roswell, GA	22	Much Higher than National Average						
Miami-Fort Lauderdale-West Palm Beach, FL	21	Much Higher than National Average						
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	20	Much Higher than National Average						
San Francisco-Oakland-Hayward, CA	12	Similar to National Average						
Houston-The Woodlands-Sugar Land, TX	12	Similar to National Average						
Tampa-St. Petersburg-Clearwater, FL	9	Much Higher than National Average						
Chicago-Naperville-Elgin, IL-IN-WI	9	Much Lower than National Average						
St. Louis, MO-IL	7	Similar to National Average						
Pittsburgh, PA	7	Higher than National Average						
Las Vegas-Henderson-Paradise, NV	7	Much Higher than National Average						
Jacksonville, FL	7	Much Higher than National Average						
Indianapolis-Carmel-Anderson, IN	7	Much Higher than National Average						
Deltona-Daytona Beach-Ormond Beach, FL	7	Much Higher than National Average						
Boston-Cambridge-Nashua, MA-NH	7	Much Lower than National Average						
Seattle-Tacoma-Bellevue, WA	6	Lower than National Average						
Reno, NV	6	Much Higher than National Average						
Nashville-Davidson--Murfreesboro--Franklin, TN	6	Much Higher than National Average						
Modesto, CA	6	Much Higher than National Average						
Manchester, NH	6	Much Higher than National Average						
Detroit-Warren-Dearborn, MI	6	Lower than National Average						

Pharmacy Demand Report (PDR)

All Pharmacist Positions

(Excluding Pharmacy Technician)

Job Postings Per State

State/Territory	Number of Pharmacists Licensed (as of Oct. 2019)	2019						2020		
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	9,581	58	9	12	18	97	10.12	18	2	16
Alaska	1,083	42	10	12	4	68	62.79	14	3	5
Arizona	11,461	157	118	114	112	501	43.71	179	64	80
Arkansas	6,169	16	6	20	24	66	10.70	19	9	13
California	44,864	765	672	593	636	2,666	59.42	956	420	445
Colorado	8,351	104	92	54	62	312	37.36	106	42	55
Connecticut	5,545	60	64	70	58	252	45.45	90	41	47
Delaware	2,208	8	1	5	6	20	9.06	7	0	8
District of Columbia	1,886	14	7	11	6	38	20.15	11	7	8
Florida	37,366	337	223	195	239	994	26.60	401	129	295
Georgia	15,216	107	70	67	110	354	23.26	139	66	115
Hawaii	2,763	9	16	5	3	33	11.94	12	6	3
Idaho	2,399	18	22	13	16	69	28.76	33	9	19
Illinois	18,184	214	162	159	137	672	36.96	174	73	66
Indiana	10,817	97	33	35	76	241	22.28	88	38	35
Iowa	11,521	33	11	18	19	81	7.03	19	8	16
Kansas	6,533	46	62	30	30	168	25.72	35	21	14
Kentucky	9,889	63	46	28	47	184	18.61	78	28	27
Louisiana	8,780	39	46	42	85	212	24.15	94	33	30
Maine	2,284	9	12	15	16	52	22.77	18	7	12
Maryland	11,700	54	45	38	67	204	17.44	73	39	47
Massachusetts	13,259	91	83	52	59	285	21.49	97	39	62
Michigan	15,719	186	123	125	104	538	34.23	169	66	49
Minnesota	8,911	109	70	47	46	272	30.52	64	35	47
Mississippi	6,211	13	10	9	3	35	5.64	7	10	2
Missouri	10,770	111	75	40	92	318	29.53	135	28	55
Montana	2,104	14	39	6	13	72	34.22	24	3	5
Nebraska	5,158	20	22	14	27	83	16.09	42	9	10
Nevada	7,721	78	39	54	43	214	27.72	82	30	51
New Hampshire	2,780	7	6	8	18	39	14.03	22	10	26
New Jersey	17,656	110	69	97	97	373	21.13	143	86	53
New Mexico	3,027	46	29	22	27	124	40.96	39	17	22
New York	27,113	202	134	103	114	553	20.40	191	114	81
North Carolina	16,517	62	34	41	49	186	11.26	71	32	64
North Dakota	2,257	31	22	5	36	94	41.65	37	7	9
Ohio	20,349	179	170	174	171	694	34.10	360	76	112
Oklahoma	7,074	23	40	23	20	106	14.98	29	18	16
Oregon	8,019	85	49	41	26	201	25.07	49	26	11
Pennsylvania	22,781	207	140	114	125	586	25.72	253	133	77
Puerto Rico	5,340	4	2	1	7	14	2.62	4	1	5
Rhode Island	2,185	17	10	14	13	54	24.71	26	10	12
South Carolina	9,045	46	43	25	27	141	15.59	42	30	32
South Dakota	2,080	7	2	2	5	16	7.69	6	1	3
Tennessee	12,180	41	24	26	35	126	10.34	47	11	41
Texas	46,835	272	186	234	279	971	20.73	409	131	195
Utah	3,270	46	22	28	25	121	37.00	40	18	6
Vermont	1,180	10	2	2	2	16	13.56	2	0	2
Virginia	14,976	48	49	36	48	181	12.09	55	18	53
Washington	10,490	168	94	91	92	445	42.42	154	69	36
West Virginia	4,780	13	3	7	8	31	6.49	11	2	7
Wisconsin	5,834	133	36	34	49	252	43.20	85	39	24
Wyoming	1,407	10	9	4	3	26	18.48	5	2	2

Pharmacy Demand Report (PDR)

All Pharmacist Positions

(Excluding Pharmacy Technician)

Job Postings in the Top 50 Metropolitan Statistical Areas (MSAs)

2019				2020					
Full Year				Quarter 1		Quarter 2			
Metro Area	Job Postings	Location Quotient		Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	625	Lower than National Average		Los Angeles-Long Beach-Anaheim, CA	250	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	154	Similar to National Average
Los Angeles-Long Beach-Anaheim, CA	615	Similar to National Average		New York-Newark-Jersey City, NY-NJ-PA	228	Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	128	Higher than National Average
Chicago-Naperville-Evanston, IL-IN-WI	599	Higher than National Average		Chicago-Naperville-Evanston, IL-IN-WI	164	Similar to National Average	Sacramento-Roseville-Arden-Arcade, CA	79	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	411	Much Higher than National Average		Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	146	Higher than National Average	Chicago-Naperville-Evanston, IL-IN-WI	68	Similar to National Average
Phoenix-Mesa-Scottsdale, AZ	397	Much Higher than National Average		Cleveland-Akron, OH	140	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	64	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	395	Much Higher than National Average		San Francisco-Oakland-Hayward, CA	138	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	51	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	284	Higher than National Average		Phoenix-Mesa-Scottsdale, AZ	138	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	51	Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	252	Similar to National Average		Miami-Fort Lauderdale-West Palm Beach, FL	136	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	51	Much Higher than National Average
Sacramento-Roseville-Arden-Arcade, CA	291	Much Higher than National Average		Dallas-Fort Worth-Arlington, TX	115	Similar to National Average	Detroit-Warren-Dearborn, MI	45	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	285	Similar to National Average		San Diego-Carlsbad, CA	114	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	43	Similar to National Average
Dallas-Fort Worth-Arlington, TX	284	Lower than National Average		Seattle-Tacoma-Bellevue, WA	113	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	41	Lower than National Average
San Diego-Carlsbad, CA	280	Much Higher than National Average		Sacramento-Roseville-Arden-Arcade, CA	112	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	40	Similar to National Average
Detroit-Warren-Dearborn, MI	250	Much Higher than National Average		Atlanta-Sandy Springs-Roswell, GA	97	Similar to National Average	San Diego-Carlsbad, CA	37	Much Higher than National Average
Reverse-Side-San Bernardino-Ontario, CA	205	Higher than National Average		St. Louis, MO-IL	94	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	36	Lower than National Average
Boston-Cambridge-Nashua, MA-NH	203	Lower than National Average		Houston-The Woodlands-Sugar Land, TX	90	Lower than National Average	Reverse-Side-San Bernardino-Ontario, CA	34	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	201	Lower than National Average		Detroit-Warren-Dearborn, MI	90	Higher than National Average	Pittsburgh, PA	32	Much Higher than National Average
Cincinnati, OH-KY-IN	173	Much Higher than National Average		Orlando-Kissimmee-Sanford, FL	86	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	30	Much Higher than National Average
St. Louis, MO-IL	171	Higher than National Average		Boston-Cambridge-Nashua, MA-NH	77	Lower than National Average	Baltimore-Columbia-Towson, MD	29	Higher than National Average
Orlando-Kissimmee-Sanford, FL	171	Higher than National Average		Denver-Aurora-Lakewood, CO	67	Higher than National Average	Milwaukee-Waukesha-West Allis, WI	28	Much Higher than National Average
Denver-Aurora-Lakewood, CO	171	Similar to National Average		Baltimore-Columbia-Towson, MD	63	Higher than National Average	Denver-Aurora-Lakewood, CO	28	Higher than National Average
Kansas City, MO-KS	170	Much Higher than National Average		San Antonio-New Braunfels, TX	60	Similar to National Average	Cleveland-Cuyahoga, OH	25	Much Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	167	Similar to National Average		Pittsburgh, PA	60	Higher than National Average	New Haven, CT	24	Much Higher than National Average
Baltimore-Columbia-Towson, MD	161	Similar to National Average		Cincinnati, OH-KY-IN	59	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	23	Lower than National Average
Cleveland-Cuyahoga, OH	154	Higher than National Average		Reverse-Side-San Bernardino-Ontario, CA	56	Similar to National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	22	Much Lower than National Average
Tampa-St. Petersburg-Clearwater, FL	153	Similar to National Average		Milwaukee-Waukesha-West Allis, WI	51	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	22	Much Lower than National Average
Pittsburgh, PA	149	Higher than National Average		Las Vegas-Henderson-Paradise, NV	51	Higher than National Average	St. Louis, MO-IL	21	Similar to National Average
Las Vegas-Henderson-Paradise, NV	145	Higher than National Average		Austin-Round Rock, TX	51	Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	21	Higher than National Average
Milwaukee-Waukesha-West Allis, WI	127	Higher than National Average		Tampa-St. Petersburg-Clearwater, FL	49	Similar to National Average	Las Vegas-Henderson-Paradise, NV	18	Higher than National Average
San Antonio-New Braunfels, TX	126	Higher than National Average		Minneapolis-St. Paul-Bloomington, MN-WI	45	Much Lower than National Average	Louisville/Jefferson County, KY-IN	16	Much Higher than National Average
Portland-Vancouver-Hillsboro, OR-WA	119	Similar to National Average		Louisville/Jefferson County, KY-IN	44	Much Higher than National Average	Salt Lake City, UT	15	Higher than National Average
New Haven, CT	119	Much Higher than National Average		Kansas City, MO-KS	39	Similar to National Average	Columbus, OH	15	Similar to National Average
Louisville/Jefferson County, KY-IN	113	Much Higher than National Average		New Haven, CT	38	Much Higher than National Average	Cincinnati, OH-KY-IN	15	Similar to National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	104	Much Lower than National Average		Fresno, CA	38	Much Higher than National Average	Raleigh, NC	13	Higher than National Average
Fresno, CA	104	Much Higher than National Average		Baton Rouge, LA	36	Much Higher than National Average	Gainesville, FL	13	Much Higher than National Average
Columbus, OH	104	Similar to National Average		Ann Arbor, MI	34	Much Higher than National Average	San Antonio-New Braunfels, TX	12	Lower than National Average
San Jose-Sunnyvale-Santa Clara, CA	97	Similar to National Average		Salt Lake City, UT	33	Higher than National Average	Kansas City, MO-KS	12	Lower than National Average
Indianapolis-Carmel-Anderson, IN	93	Similar to National Average		Dayton, OH	33	Much Higher than National Average	Bakerfield, CA	12	Much Higher than National Average
Salt Lake City, UT	90	Similar to National Average		Columbus, OH	32	Similar to National Average	Salinas, CA	11	Much Higher than National Average
Dayton, OH	74	Much Higher than National Average		Canton, OH	32	Much Higher than National Average	Oklahoma City, OK	11	Similar to National Average
Austin-Round Rock, TX	72	Lower than National Average		Buffalo-Cheektowaga-Niagara Falls, NY	30	Higher than National Average	Fresno, CA	11	Much Higher than National Average
New Orleans-Metairie, LA	69	Similar to National Average		Reno, NV	28	Much Higher than National Average	Buffalo-Cheektowaga-Niagara Falls, NY	11	Higher than National Average
Virginia Beach-Norfolk-Newport News, VA-NC	68	Similar to National Average		Hartford-West Hartford-East Hartford, CT	28	Higher than National Average	Augusta-Richmond County, GA-SC	11	Much Higher than National Average
Nashville-Davidson-Murfreesboro-Franklin, TN	68	Lower than National Average		Bakersfield, CA	27	Much Higher than National Average	Albuquerque, NM	11	Much Higher than National Average
Providence-Warwick, RI-MA	67	Similar to National Average		Washington-Arlington-Alexandria, DC-VA-MD-WV	27	Much Lower than National Average	Tampa-St. Petersburg-Clearwater, FL	10	Much Lower than National Average
Ann Arbor, MI	67	Much Higher than National Average		San Jose-Sunnyvale-Santa Clara, CA	27	Lower than National Average	Reno, NV	10	Much Higher than National Average
Omaha-Council Bluffs, NE-IA	64	Higher than National Average		New Orleans-Metairie, LA	27	Similar to National Average	Providence-Warwick, RI-MA	10	Similar to National Average
Bakersfield, CA	64	Much Higher than National Average		Providence-Warwick, RI-MA	26	Similar to National Average	New Orleans-Metairie, LA	10	Similar to National Average
Santa Rosa, CA	63	Much Higher than National Average		Albuquerque, NM	26	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	10	Lower than National Average
Hartford-West Hartford-East Hartford, CT	61	Similar to National Average		Portland-Vancouver-Hillsboro, OR-WA	24	Much Lower than National Average	Harrisburg-Carlisle, PA	10	Much Higher than National Average
Albuquerque, NM	61	Much Higher than National Average		Indianapolis-Carmel-Anderson, IN	24	Lower than National Average	Charlotte-Concord-Gastonia, NC-SC	10	Much Lower than National Average

Quarter 3			
Metro Area	Job Postings	Location Quotient	
Los Angeles-Long Beach-Anaheim, CA	156	Higher than National Average	
Miami-Fort Lauderdale-West Palm Beach, FL	91	Much Higher than National Average	
New York-Newark-Jersey City, NY-NJ-PA	87	Much Lower than National Average	
Orlando-Kissimmee-Sanford, FL	75	Much Higher than National Average	
Dallas-Fort Worth-Arlington, TX	75	Higher than National Average	
Phoenix-Mesa-Scottsdale, AZ	63	Higher than National Average	
Sacramento-Roseville-Arden-Arcade, CA	61	Much Higher than National Average	
Atlanta-Sandy Springs-Roswell, GA	58	Higher than National Average	
Chicago-Naperville-Evanston, IL-IN-WI	57	Lower than National Average	
Houston-The Woodlands-Sugar Land, TX	53	Similar to National Average	
San Francisco-Oakland-Hayward, CA	52	Higher than National Average	
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	52	Similar to National Average	
Boston-Cambridge-Nashua, MA-NH	49	Similar to National Average	
San Diego-Carlsbad, CA	40	Much Higher than National Average	
Tampa-St. Petersburg-Clearwater, FL	39	Much Higher than National Average	
Baltimore-Columbia-Towson, MD	37	Much Higher than National Average	
St. Louis, MO-IL	36	Higher than National Average	
Las Vegas-Henderson-Paradise, NV	33	Much Higher than National Average	
Detroit-Warren-Dearborn, MI	32	Similar to National Average	
Denver-Aurora-Lakewood, CO	32	Higher than National Average	
Washington-Arlington-Alexandria, DC-VA-MD-WV	31	Much Lower than National Average	
Minneapolis-St. Paul-Bloomington, MN-WI	31	Similar to National Average	
Cincinnati, OH-KY-IN	29	Much Higher than National Average	
Seattle-Tacoma-Bellevue, WA	28	Lower than National Average	
San Jose-Sunnyvale-Santa Clara, CA	28	Higher than National Average	
San Antonio-New Braunfels, TX	22	Higher than National Average	
Reverse-Side-San Bernardino-Ontario, CA	21	Similar to National Average	
Pittsburgh, PA	21	Similar to National Average	
Youngstown-Warren-Boardman, OH-PA	20	Much Higher than National Average	
Louisville/Jefferson County, KY-IN	20	Much Higher than National Average	
Charlotte-Concord-Gastonia, NC-SC	19	Similar to National Average	
Nashville-Davidson-Murfreesboro-Franklin, TN	18	Similar to National Average	
Boise City, ID	18	Much Higher than National Average	
Virginia Beach-Norfolk-Newport News, VA-NC	17	Higher than National Average	
New Haven, CT (Metropolitan NECTA)	17	Much Higher than National Average	
Indianapolis-Carmel-Anderson, IN	17	Similar to National Average	
Cleveland-Cuyahoga, OH	17	Similar to National Average	
Fresno, AZ	16	Much Higher than National Average	
Omard-Thousand Oaks-Ventura, CA	15	Much Higher than National Average	
Fresno, CA	15	Much Higher than National Average	
New Orleans-Metairie, LA	14	Higher than National Average	
Modesto, CA	14	Much Higher than National Average	
Columbus, OH	14	Lower than National Average	
Reno, NV	13	Much Higher than National Average	
Albuquerque, NM	13	Much Higher than National Average	
Providence-Warwick, RI-MA	13	Similar to National Average	
Memphis, TN-MS-AR	12	Similar to National Average	
Manchester, NH (Metropolitan NECTA)	12	Much Higher than National Average	
Gainesville, FL	12	Much Higher than National Average	
Des Moines-West Des Moines, IA	12	Much Higher than National Average	

Pharmacy Demand Report (PDR)

Pharmacy Technician

Job Postings Per State

		2019						2020		
State/Territory	Number of Employed Pharmacy Technicians According to BLS (as of May 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3
Alabama	6,790	527	397	305	346	1,575	231.96	515	307	275
Alaska	590	98	48	51	56	253	428.81	73	44	62
Arizona	8,900	1,443	1,012	1,023	1,018	4,496	505.17	1,680	957	2,538
Arkansas	4,880	191	138	141	140	610	125.00	208	162	198
California	36,560	3,836	2,882	2,696	2,913	12,327	337.17	5,014	3,294	2,905
Colorado	5,600	902	640	625	705	2,872	512.86	1,201	504	655
Connecticut	3,870	381	306	261	326	1,274	329.20	566	359	338
Delaware	1,360	112	88	66	79	345	253.68	112	85	49
District of Columbia	670	111	73	65	74	323	482.09	115	78	52
Florida	29,800	2,636	1,770	1,536	1,999	7,941	266.48	3,052	1,770	1,903
Georgia	11,360	1,128	883	775	783	3,569	314.17	1,031	717	766
Hawaii	1,790	135	118	104	93	450	251.40	130	100	82
Idaho	2,190	189	109	124	165	587	268.04	225	106	185
Illinois	21,090	1,631	1,152	1,293	1,353	5,429	257.42	1,977	1,104	907
Indiana	9,610	1,102	765	674	799	3,340	347.55	1,214	713	550
Iowa	4,270	523	341	188	267	1,319	308.90	398	235	308
Kansas	4,220	594	364	268	297	1,523	360.90	418	208	262
Kentucky	8,840	637	495	586	514	2,232	252.49	751	468	495
Louisiana	6,150	479	419	304	466	1,668	271.22	710	462	330
Maine	2,270	165	166	157	156	644	283.70	208	120	91
Maryland	7,640	887	608	513	681	2,689	351.96	904	543	477
Massachusetts	9,150	1,308	1,060	786	996	4,150	453.55	1,522	946	783
Michigan	15,040	2,234	1,554	1,587	1,440	6,815	453.13	2,162	1,176	1,110
Minnesota	8,120	1,279	744	685	745	3,453	425.25	1,038	571	573
Mississippi	3,450	268	182	179	235	864	250.43	292	201	229
Missouri	9,970	849	621	470	608	2,548	255.57	919	563	507
Montana	1,180	86	103	53	68	310	262.71	129	77	103
Nebraska	2,510	302	220	185	177	884	352.19	312	214	228
Nevada	3,750	352	213	204	231	1,000	266.67	404	259	282
New Hampshire	1,870	262	223	217	227	929	496.79	344	248	306
New Jersey	9,810	1,347	993	866	923	4,129	420.90	1,450	1,086	682
New Mexico	2,340	224	147	146	138	655	279.91	227	115	140
New York	20,360	1,598	1,337	1,062	1,201	5,198	255.30	2,055	1,235	984
North Carolina	13,560	1,296	992	792	882	3,962	292.18	1,421	798	801
North Dakota	890	48	73	47	47	215	241.57	71	34	24
Ohio	16,470	2,015	1,549	1,524	1,370	6,458	392.11	2,558	1,452	1,553
Oklahoma	4,940	372	226	252	268	1,118	226.32	426	267	243
Oregon	4,900	628	433	375	484	1,920	391.84	581	296	237
Pennsylvania	18,250	1,992	1,549	1,258	1,409	6,208	340.16	2,297	1,326	951
Puerto Rico	5,530	38	37	28	21	124	22.42	40	8	43
Rhode Island	1,840	166	122	111	155	554	301.09	180	138	69
South Carolina	7,110	447	391	301	320	1,459	205.20	508	377	301
South Dakota	1,250	56	48	39	54	197	157.60	63	29	69
Tennessee	10,270	1,077	762	789	684	3,312	322.49	995	551	613
Texas	38,550	3,260	2,314	2,389	2,443	10,406	269.94	4,076	2,130	2,746
Utah	3,700	359	259	229	237	1,084	292.97	467	226	334
Vermont	740	91	56	45	64	256	345.95	68	48	68
Virginia	10,320	1,039	771	724	745	3,279	317.73	1,121	649	535
Washington	7,150	949	677	807	688	3,121	436.50	1,073	584	587
West Virginia	3,270	196	151	172	178	697	213.15	198	121	72
Wisconsin	7,990	1,063	615	527	601	2,806	351.19	952	593	453
Wyoming	570	35	40	21	26	122	214.04	34	18	25

Pharmacy Demand Report (PDR)

Pharmacy Technician

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019		2020			
Full Year		Quarter 1		Quarter 2	
Metro Area	Job Postings	Metro Area	Job Postings	Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA	5,971	New York-Newark-Jersey City, NY-NJ-PA	2,238	New York-Newark-Jersey City, NY-NJ-PA	1,585
Chicago-Naperville-Elgin, IL-IN-WI	4,300	Chicago-Naperville-Elgin, IL-IN-WI	1,617	Los Angeles-Long Beach-Anaheim, CA	1,143
Los Angeles-Long Beach-Anaheim, CA	4,048	Los Angeles-Long Beach-Anaheim, CA	1,532	Chicago-Naperville-Elgin, IL-IN-WI	926
Dallas-Fort Worth-Arlington, TX	3,792	Dallas-Fort Worth-Arlington, TX	1,529	Phoenix-Mesa-Scottsdale, AZ	787
Detroit-Warren-Dearborn, MI	3,679	Phoenix-Mesa-Scottsdale, AZ	1,339	Boston-Cambridge-Nashua, MA-NH	759
Phoenix-Mesa-Scottsdale, AZ	3,585	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1,306	Dallas-Fort Worth-Arlington, TX	753
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	3,352	Detroit-Warren-Dearborn, MI	1,219	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	725
Boston-Cambridge-Nashua, MA-NH	2,964	Boston-Cambridge-Nashua, MA-NH	1,198	Detroit-Warren-Dearborn, MI	719
Minneapolis-St. Paul-Bloomington, MN-WI	2,306	Houston-The Woodlands-Sugar Land, TX	895	San Francisco-Oakland-Hayward, CA	508
Miami-Fort Lauderdale-West Palm Beach, FL	2,255	Miami-Fort Lauderdale-West Palm Beach, FL	838	Miami-Fort Lauderdale-West Palm Beach, FL	473
Atlanta-Sandy Springs-Roswell, GA	2,202	Cleveland-Elyria, OH	823	Houston-The Woodlands-Sugar Land, TX	447
Seattle-Tacoma-Bellevue, WA	2,180	San Francisco-Oakland-Hayward, CA	823	Washington-Arlington-Alexandria, DC-VA-MD-WV	442
Houston-The Woodlands-Sugar Land, TX	2,161	Minneapolis-St. Paul-Bloomington, MN-WI	760	Tampa-St. Petersburg-Clearwater, FL	423
Washington-Arlington-Alexandria, DC-VA-MD-WV	2,023	Seattle-Tacoma-Bellevue, WA	732	Atlanta-Sandy Springs-Roswell, GA	414
San Francisco-Oakland-Hayward, CA	1,884	Denver-Aurora-Lakewood, CO	731	Minneapolis-St. Paul-Bloomington, MN-WI	409
Baltimore-Columbia-Towson, MD	1,806	Washington-Arlington-Alexandria, DC-VA-MD-WV	682	Cleveland-Elyria, OH	407
Denver-Aurora-Lakewood, CO	1,682	Atlanta-Sandy Springs-Roswell, GA	659	Seattle-Tacoma-Bellevue, WA	401
Pittsburgh, PA	1,649	Tampa-St. Petersburg-Clearwater, FL	636	Pittsburgh, PA	371
Tampa-St. Petersburg-Clearwater, FL	1,638	Indianapolis-Carmel-Anderson, IN	615	Baltimore-Columbia-Towson, MD	336
Kansas City, MO-KS	1,637	Pittsburgh, PA	598	Indianapolis-Carmel-Anderson, IN	332
Indianapolis-Carmel-Anderson, IN	1,541	Baltimore-Columbia-Towson, MD	589	Riverside-San Bernardino-Ontario, CA	317
Cleveland-Elyria, OH	1,473	St. Louis, MO-IL	584	Sacramento-Roseville-Arden-Arcade, CA	303
Nashville-Davidson-Murfreesboro-Franklin, TN	1,458	Orlando-Kissimmee-Sanford, FL	526	Denver-Aurora-Lakewood, CO	290
St. Louis, MO-IL	1,419	Riverside-San Bernardino-Ontario, CA	512	St. Louis, MO-IL	269
Portland-Vancouver-Hillsboro, OR-WA	1,411	San Diego-Carlsbad, CA	491	Milwaukee-Waukesha-West Allis, WI	269
		Quarter 3			
		Metro Area	Job Postings		
		Phoenix-Mesa-Scottsdale, AZ	2,354		
		New York-Newark-Jersey City, NY-NJ-PA	1,083		
		Los Angeles-Long Beach-Anaheim, CA	935		
		Dallas-Fort Worth-Arlington, TX	924		
		Chicago-Naperville-Elgin, IL-IN-WI	743		
		Boston-Cambridge-Nashua, MA-NH	696		
		Miami-Fort Lauderdale-West Palm Beach, FL	613		
		Detroit-Warren-Dearborn, MI	587		
		Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	528		
		Houston-The Woodlands-Sugar Land, TX	502		
		Atlanta-Sandy Springs-Roswell, GA	495		
		San Francisco-Oakland-Hayward, CA	494		
		Austin-Round Rock, TX	459		
		Cleveland-Elyria, OH	439		
		Minneapolis-St. Paul-Bloomington, MN-WI	434		
		Denver-Aurora-Lakewood, CO	413		
		Seattle-Tacoma-Bellevue, WA	388		
		Tampa-St. Petersburg-Clearwater, FL	367		
		Baltimore-Columbia-Towson, MD	321		
		Orlando-Kissimmee-Sanford, FL	314		
		Washington-Arlington-Alexandria, DC-VA-MD-WV	309		
		Pittsburgh, PA	301		
		Louisville/Jefferson County, KY-IN	279		
		Riverside-San Bernardino-Ontario, CA	268		
		Kansas City, MO-KS	263		