



Pharmacists

WHAT THEY DO

Prepares and dispenses medications, following prescriptions issued by physicians, dentists, or other authorized medical practitioners. Belongs to the Health Science cluster and Therapeutic Services pathway.

IS THIS FOR YOU?

Work Interests are described in the following categories (compatible with Holland's Model) by people who tend to succeed in this career:

- **Conventional** – You are an "organizer". Keeping things neat and organized is important to you. You like working with charts and reports, and work well with power and authority.
- **Investigative** – You are a "thinker". When you have a problem, you like to analyze it and look at different ways to solve it. You like to work by yourself, and you don't like explaining your ideas to other people.
- **Social** – You are a "helper". You like being around people and helping them with problems. Socializing is fun for you.

Work Values are aspects of work that are satisfying to you. The following work values are generally associated with this career.

- **Achievement** – It's very important to you that your work allows you to use your best abilities. You want to see the results of your work and get a feeling of accomplishment.
- **Relationships** – It's very important to you that you have friendly co-workers. You would like to be of service to others without compromising your sense of right and wrong.

Aptitudes reflect a person's ability to acquire skills and knowledge. The following aptitudes are important for success in the career:

- **General Learning Ability**
- **Verbal Aptitude**
- **Numerical Aptitude**
- **Form Perception**
- **Finger Dexterity**

SKILLS YOU NEED

Basic Skills:

- Reading Comprehension
- Active Listening
- Writing
- Speaking
- Mathematics
- Science
- Critical Thinking
- Active Learning
- Learning Strategies
- Monitoring

Transferable Skills (applicable in other careers): High level

- Developing and using computerized medical records
- Helping people understand health care instructions
- Hiring and supervising staff
- Providing health care support services
- Purchasing products for resale
- Selling products or services
- Treating physical or mental problems

Workplace Skills:

Medium level

- Coordination
- Instructing
- Persuasion
- Social Perceptiveness

Additional skills for this occupation may be found at <http://www.iowaworkforce.org/pubs/careers/cps>.

Source: <https://secure.ihaveaplaniowa.gov/>

ESTIMATED & PROJECTED EMPLOYMENT

Occupational Title	2010 Estimated Employment	2020 Projected Employment	2010-20 Employment Change	Annual Growth Rate (%)	Total Annual Openings
Total All Occupations	1,717,020	1,948,700	231,680	1.3	64,525
Total Healthcare Practitioners & Technical Occupations	81,850	100,305	18,455	2.3	3,500
Pharmacists	3,080	3,720	640	2.1	140

Source: <http://iwin.iwd.state.ia.us/pubs/statewide/stateoccproj.pdf>

2012 WAGE & SALARY (\$)

Occupational Title	Average Wage	Average Salary	Entry Wage	Entry Salary	Experienced Wage	Experienced Salary
Total All Occupations	18.90	39,295	9.30	19,341	23.69	49,272
Total Healthcare Practitioners & Technical Occupations	31.16	64,824	15.94	33,163	38.78	80,655
Pharmacists	50.11	104,232	40.16	83,526	55.09	114,584

Source: <http://iwin.iwd.state.ia.us/pubs/statewide/stateoccproj.pdf>

EDUCATION & TRAINING

Education

Work Experience

Job Training

Doctoral/Professional Degree

None

None

Pharmacists must earn a Pharm.D. degree from an accredited college or school of pharmacy. The Pharm.D. degree has replaced the Bachelor of Pharmacy degree, which is no longer being awarded. To be admitted to a Pharm.D. program, an applicant must have completed at least two years of post-secondary study, although most applicants have completed three or more years. Other entry requirements usually include courses in mathematics and natural sciences, such as chemistry, biology, and physics, as well as courses in the humanities and social sciences. A license to practice pharmacy is required in all States, the District of Columbia, and all U.S. territories. To obtain a license, a prospective pharmacist must graduate from a college of pharmacy that is accredited by the Accreditation Council for Pharmacy Education and pass a series of examinations. All States, U.S. territories, and the District of Columbia require the North American Pharmacist Licensure Exam (NAPLEX), which tests pharmacy skills and knowledge. Forty-four States and the District of Columbia also require the Multistate Pharmacy Jurisprudence Exam (MPJE), which tests pharmacy law. Both exams are administered by the National Association of Boards of Pharmacy (NABP). Each of the eight States and territories that do not require the MJPE has its own pharmacy law exam. In addition to the NAPLEX and MPJE, some States and territories require additional exams that are unique to their jurisdiction. The Iowa Pharmacy Examiners Board website at http://access.bridges.com/ext/cp/custom_state_data/iowa_licensed_occupations/29-1051.htm provides specific licensure and support information for the state of Iowa.

Source: <http://iwin.iwd.state.ia.us/pubs/statewide/stateoccproj.pdf> and <https://secure.ihaveaplaniowa.gov/>

NATIONAL CAREER READINESS CERTIFICATE (NCRC)

Skill	Median Skill Level
Applied Mathematics	6
Locating Information	4
Reading for Information	4



This ACT-developed credential demonstrates achievement and a certain level of workplace employability skills. The greater the score, the greater the skill level (Bronze = 3, Silver = 4, Gold = 5, Platinum = 6).

Source: <http://www.act.org/workkeys/analysis/occup.html>

PRIMARY INDUSTRY SECTORS

(Where are Pharmacists Employed?)

Health and Personal Care Stores
Hospitals
General Merchandise Stores
Food and Beverage Stores
Federal Government

Source: <http://iwin.iwd.state.ia.us/pubs/statewide/stateoccproj.pdf>

ADDITIONAL SOURCES:

This publication was produced by the Labor Market and Workforce Information Division of Iowa Workforce Development. Revisions and/or corrections made when necessary. Inquiries may be directed to Brent Paulson at 515.281.3439 or Brent.Paulson@iwd.iowa.gov. Visit <http://iwin.iowaworkforce.org/> to obtain the latest workforce data and trends including this document under the **Publications** tab. Published 10/2013.