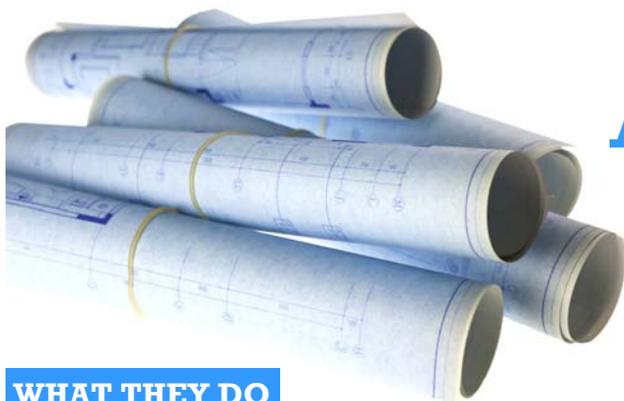


Occupational Profile



Architects



WHAT THEY DO

Plans and designs structures, such as private residences, office buildings, theaters, factories, and other structural property. Often uses computer-aided design and drafting (CADD) systems. Belongs to the Architecture and Construction cluster and Design/Pre-Construction 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:

- **Artistic** – You are a "creator". You enjoy things like art, music and books, and express your feelings easily. You don't like rigid rules and structure.
- **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.
- **Enterprising** – You are a "persuader". You like to sell things or ideas. Prestige and power are important to you. You like to use your language skills to convince other people of your ideas.
- **Realistic** – You are a "doer". You like physical activities and projects. You like to find the answers to problems by doing hands-on work instead of talking about solutions.

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.
- **Independence** – It's very important to you that your work allows you to make decisions on your own. You want to try out your own ideas and work with little supervision.

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**
- **Spatial Perception**

SKILLS YOU NEED

Basic Skills:

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

Transferable Skills (applicable in other careers):

High level

- Creating design concepts for structures and facilities
 - Designing and arranging objects
 - Designing structures and land use
- Drafting drawings for buildings and equipment
 - Explaining diagrams
- Giving advice on building plans and equipment
- Operating computers to lay out designs and colors
 - Planning project activities

Workplace Skills:

High level

- Complex Problem Solving
 - Coordination
- Operations Analysis

Medium level

- Instructing
- Judgment and Decision Making
- Management of Financial Resources
- Management of Personnel Resources
 - Negotiation
 - Persuasion
- Quality Control Analysis
- Social Perceptiveness
- Time Management
- Troubleshooting

Additional skills for this occupation may be found at <http://www.iowaworkforcedevelopment.gov/career-exploration-resources>

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

ESTIMATED & PROJECTED EMPLOYMENT

Occupational Title	2012 Estimated Employment	2022 Projected Employment	2012-22 Employment Change	Annual Growth Rate (%)	Total Annual Openings
Total, All Occupations	1,758,205	1,955,480	197,275	1.1	61,665
Architecture & Engineering Occupations	18,715	20,165	1,450	0.8	590
Architects, Ex Landscape & Naval	935	1,140	200	2.1	40

Source: <http://www.iowaworkforcementdevelopment.gov/occupational-projections-0>

2015 WAGE & SALARY (\$)

Occupational Title	Average Wage	Average Salary	Entry Wage	Entry Salary	Experienced Wage	Experienced Salary
Total, All Occupations	19.77	41,122	9.55	19,858	24.88	51,755
Architecture & Engineering Occupations	32.37	67,338	20.81	43,279	38.16	79,368
Architects, Ex Landscape & Naval	33.23	69,117	22.07	45,914	38.81	80,719

Source: <http://www.iowaworkforcementdevelopment.gov/occupational-projections-0>

EDUCATION & TRAINING

Education	Work Experience	Job Training
Bachelor's Degree	None	Internship/Residency

There are three main steps in becoming an architect. First is the attainment of a professional degree in architecture. Second is work experience through an internship, and third is licensure through the passing of the Architect Registration Exam. In most States, the professional degree in architecture must be from one of the schools of architecture that have degree programs accredited by the National Architectural Accrediting Board. However, State architectural registration boards set their own standards, so graduation from a non-accredited program may meet the educational requirement for licensing in a few States. Three types of professional degrees in architecture are available: a 5-year bachelor's degree, which is most common and is intended for students with no previous architectural training; a 2-year master's degree for students with an undergraduate degree in architecture or a related area; and a 3- or 4-year master's degree for students with a degree in another discipline. All States and the District of Columbia require individuals to be licensed (registered) before they may call themselves architects and contract to provide architectural services. The Iowa Architectural Examining Board website at http://access.bridges.com/ext/cp/custom_state_data/iowa_licensed_occupations/17-1011.htm provides specific licensure and support information for the state of Iowa. Source: <http://www.iowaworkforcementdevelopment.gov/occupational-projections-0> and <https://secure.ihaveaplaniowa.gov/>

NATIONAL CAREER READINESS CERTIFICATE (NCRC)

Skill	Median Skill Level
Applied Mathematics	n. a.
Locating Information	n. a.
Reading for Information	n. a.



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 Architects Employed?)

- Professional, Scientific, and Technical Services
- Self Employed
- Educational Services
- Construction of Buildings

Source:

<http://www.iowaworkforcementdevelopment.gov/occupational-projections-0>

ADDITIONAL SOURCES:

This workforce product was funded by a grant by the U.S. Department of Labor's Employment and Training Administration. The product was created by the recipient and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner. 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 www.iowalmi.gov to obtain the latest workforce data and trends including this document. Published 12/2015.