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.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
Architecture & Engineering Occupations	17,940	20,570	2,630	1.5	670
Architects, Ex Landscape & Naval	990	1,285	295	3.0	50

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
Architecture & Engineering Occupations	31.94	66,438	20.55	42,746	37.63	78,284
Architects, Ex Landscape & Naval	35.45	73,727	22.30	46,370	42.02	87,404

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

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://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	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://iwin.iwd.state.ia.us/pubs/statewide/stateoccproj.pdf

ADDITIONAL SOURCES:

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