



PATHWAY: ARCHITECTURAL DESIGN

GET THE FACTS:

Architectural and Civil Drafters prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

Architects plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. Architecture students learn the fundamentals of architecture design, technology, history and theory.

WORKFORCE TRENDS:

Employment of Architects and Architectural Drafters is projected to **GROW 7 percent** from 2014 to 2024, about as fast as the average for all occupations.

Those with up-to- date technical skills —including a strong grasp of CAD and BIM— and experience in sustainable design will have an advantage.

ARCHITECTURAL DESIGN IS:

- High skill
- High wage
- High demand

Occupation Outlook:



The Utah statewide annual median wage:



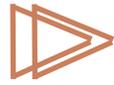
SAMPLE CAREER OCCUPATIONS:

- Architectural/Civil Drafter
- Architect
- Urban Planner
- Building Surveyor
- Architectural Manager

COLLEGE AND CAREER:

There are a number of options for education and training beyond high school, depending on your career goals. In Utah, the following colleges offer programs in Architectural Design.

- BYUI - AAS Architectural Technology
- WSU - BS Design Engineering Technology; BIS Architecture, Engineering & Construction Technology; AAS Design Engineering Tech
- U of U - BS Architectural Studies; BS Urban Ecology; BS Multi-Disciplinary Design
- UVU - AS, AAS Drafting; CP Architectural Design Technology; CP Civil Design Tech; CP Structural Design Technology
- SUU - BS Engineering Technology-Architecture/Civil Design emphasis; BS Engineering Technology-CAD/CAM emphasis; AAS Engineering Technology-CAD/CAM Technology; CC Civil Design
- USU/E - CC Engineering Drafting & Design Technology
- SLCC - AS Architecture; AAS Architectural Technology; AAS Architectural Tech-CAD/BIM emphasis



PATHWAY: CABINETMAKING/MILLWORK

GET THE FACTS:

Cabinetmakers cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines, such as power saws and jointers to surface, cut, or shape lumber or to fabricate parts for wood products.

Furniture Finishers shape, finish, and refinish damaged, worn, or used furniture or new high-grade furniture to specified color or finish.

WORKFORCE TRENDS:

Employment of Cabinetmakers and Furniture Finishers is projected to **GROW** 4% from 2014 to 2024.

Those who have advanced skills, including the ability to use computer-controlled machinery and good math skills should have the best job opportunities.

CABINETMAKING/MILLWORK IS:

- High demand
Occupation Outlook:



The Utah statewide annual median wage:

Cabinetmaker	\$34,330
Furniture Finisher	\$34,620

SAMPLE CAREER OCCUPATIONS:

- Cabinetmaker
- Finish Carpenter
- Furniture Finisher
- Cabinet Assembler
- Cabinet Installation
- Furniture Maker

COLLEGE AND CAREER:

There are a number of options for education and training beyond high school, depending on your career goals. In Utah, two colleges offer a degree in Cabinetmaking/Millwork. They are:

- SLCC - CC Cabinetmaking & Furniture Construction
- UVU - AS Pre Major, AAS, CCn Cabinetry & Architectural Woodwork



PATHWAY: CONSTRUCTION MANAGEMENT/CARPENTRY

GET THE FACTS:

Construction Managers plan, direct, or coordinate activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation.

Building Inspectors inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be limited to a specific area, such as electrical systems or plumbing.

Carpenters construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms, building frameworks, window and door frames, and hardwood floors.

WORKFORCE TRENDS:

Employment of Construction Managers, Building Inspectors and Carpenters is projected to GROW 5-8 percent from 2014 to 2024, about as fast as the average for all occupations.

Those with a bachelor's (BS) degree coupled with construction experience will have the best job prospects.

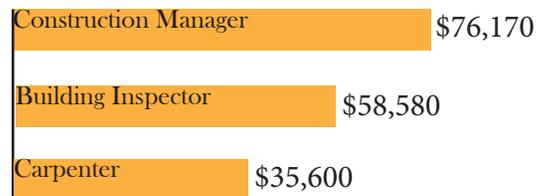
CONSTRUCTION MANAGEMENT:

- High skill
- Medium to High wage
- High demand

Occupation Outlook:



The Utah statewide annual median wage:



SAMPLE CAREER OCCUPATIONS:

- Construction Manager
- Building inspector
- Carpenter
- Restoration Specialist
- Subcontractor

COLLEGE AND CAREER:

There are a number of options for education and training beyond high school, depending on your career goals.

- BYU - BS Construction Management
- BYUI - BS Construction Management
- WSU - BS, AAS Construction Management Technology
- UVU - BS, AAS Construction Management; AAS, CC Building Inspection Technology
- SUU - BS, AAS, CC Construction Management
- USU/E - CC Building Construction & Construction Management
- SLCC - AS Construction Management; AAS Construction Management & Sustainable Building; CC Sustainable Building Construction
- SNOW - AS, AAS, CP Building & Construction Management
- MATC - Apprenticeships in Construction Craft Skilled Laborer and Form Builder-Rough Carpenter.



PATHWAY: FACILITIES MANAGEMENT

GET THE FACTS:

Facility and Property Management is the development and management of all types of real estate, facilities, and properties from original design and construction, through the different phases of occupation, including remodeling, to the final demise of the property. It is managing the real estate to fulfill the purpose for which it is intended.

Whether it's providing services in a multi-tenant skyscraper, overseeing the infrastructure of a manufacturing plant, maintaining a university, managing a sports event, or operating a hospital complex-- the facilities manager does it all.

WORKFORCE TRENDS:

Facilities Management positions are expected to **INCREASE 12%** in the next decade.

Students having meaningful work experience and internships during their education will have better job prospects.

FACILITIES MANAGEMENT IS:

- High skill
- Medium wage
- High demand

Occupation Outlook:



**Average starting salary for a
Facilities Management graduate is
\$53,000**

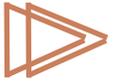
SAMPLE CAREER OCCUPATIONS:

- Property Manager
- Sports and Event Manager
- Facilities Engineer
- Campus Facilities Manager
- Site Manager

COLLEGE AND CAREER:

There are a number of options for education and training beyond high school, depending on your career goals. In Utah, three colleges offer a degree in Facilities Management. They are:

- BYU - BS Facilities Management
- WSU - BS Construction Management Technology—Facilities Management emphasis
- UVU - BS Technology Management - Facilities Management emphasis



PATHWAY: ARCHITECTURE & CONSTRUCTION

These programs are a good fit if you like to design and build things, enjoy working as a team, can problem solve, are a good leader, and have good communication skills

ARCHITECTURAL DESIGN IS:

The Utah statewide annual median wage:

AS	Architectural/Civil Drafter	\$47,120
BS	Architect	\$71,150

Architectural and Civil Drafters prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.

Architects plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property. Architecture students learn the fundamentals of architecture design, technology, history and theory.

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FACILITIES MANAGEMENT IS:

Average starting salary for a Facilities Management graduate is \$53,000

Facility and Property Management is the development and management of all types of real estate, facilities, and properties from original design and construction, through the different phases of occupation, including remodeling, to the final demise of the property. It is managing the real estate to fulfill the purpose for which it is intended.

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CONSTRUCTION MANAGEMENT:

The Utah statewide annual median wage:

Construction Manager	\$76,170
Building Inspector	\$58,580
Carpenter	\$35,600

Construction Managers plan, direct, or coordinate activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation.

Building Inspectors inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be limited to a specific area, such as electrical systems or plumbing.

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