

AGC of Wisconsin

A.C.E. (ARCHITECTURE - CONSTRUCTION -
ENGINEERING) ACADEMY



Economic Impact of Construction

In Wisconsin, construction contributed \$10 billion (3.4%) of the state's GDP of \$293 billion.



Construction wages and salaries in 2014 totaled \$353 billion in the United States, including \$6.0 billion in Wisconsin.



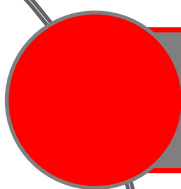
Construction and Extraction has the highest overall projected job growth of any industry with **20.5% increase** between 2012-2022 in Wisconsin



Source: Ken Simonson, Chief Economist, AGC of America, September 2015
Wisconsin's Worknet, Wisconsin Department of Workforce Development



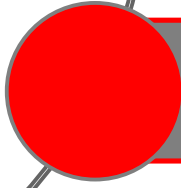
Employment Needs



In Wisconsin, Seventy-three percent (73%) of contractors are having a hard time filling key salaried positions (project manager/supervisor, estimator, etc.) and hourly craft positions (carpenter, laborer, equipment operator, etc.)



Seventy-eight percent (78%) of the state's construction firms plan to expand their hiring of additional craft workers.



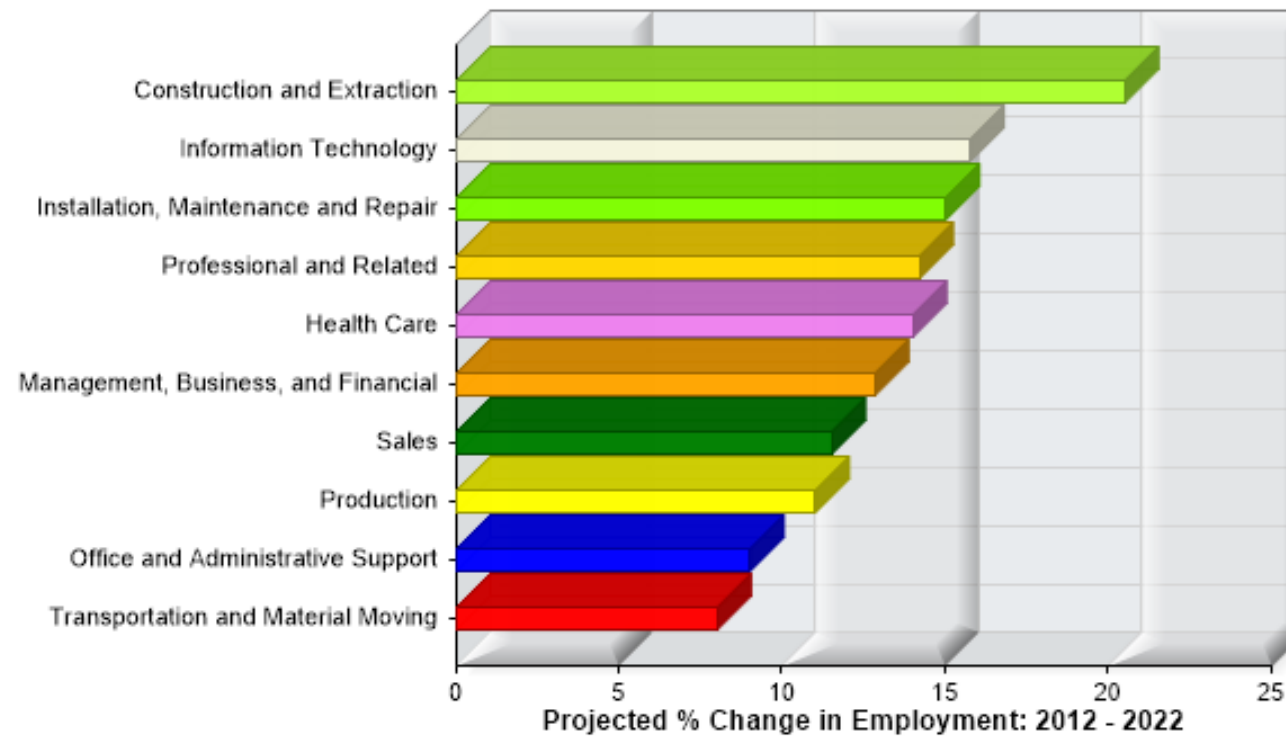
Sixty-seven percent (67%) of contractors in Wisconsin state "Worker Shortages" as their biggest concern to their business.

Source: Ken Simonson, Chief Economist, AGC of America, 2017 Construction Industry Hiring and Business Outlook



Construction Careers

Hot Jobs Wisconsin Statewide



Source: Wisconsin's
Worknet, Wisconsin
Department of
Workforce
Development



THE ROAD TO A CONSTRUCTION CAREER

Starts here

WHAT PATH WILL YOU CHOOSE?

High School Diploma

TAKE YOUR PICK!

No matter what your educational ambitions may be, construction has something to offer at every level.



Skilled trade professions



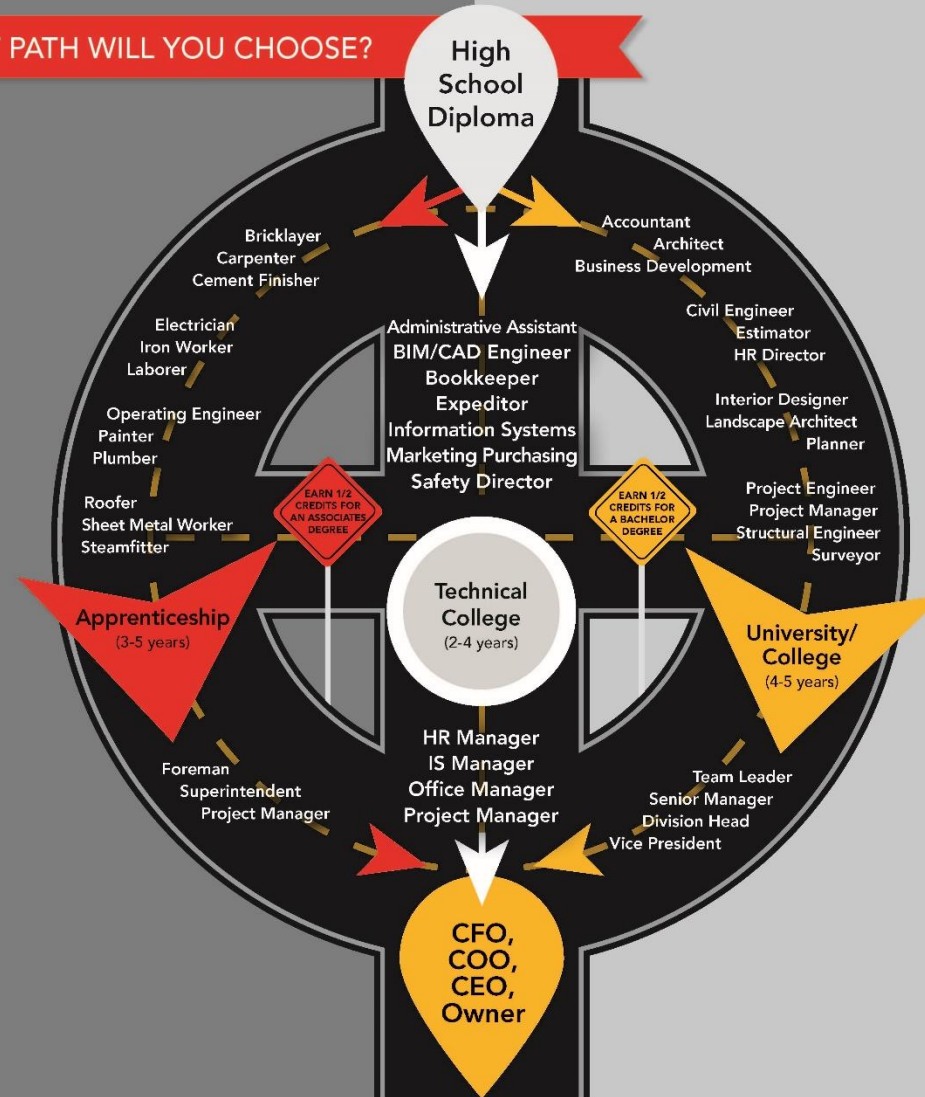
Technical/
Administrative
support
professions



Management
professions



Design and
engineering
professions



VISIT BUILDWI.ORG FOR HELPFUL RESOURCES TO GET YOU STARTED ON A PATH TO A SUCCESSFUL CONSTRUCTION CAREER.

Construction Careers

Wisconsin Construction Wages

Occupation	Annual Compensation
Bricklayer	\$62,491
Carpenter	\$57,072
Cement Finisher	\$52,888
Laborer	\$46,609
Operating Engineer	\$64,514
Electrician	\$64,445
Plumber	\$78,451
Sheet Metal Worker	\$61,636
Ironworker	\$70,101

Construction workers' pay in Wisconsin averaged \$55,400, 27% more than all private sector employees in the state. (Source: AGC of America)

*Average annual compensation for an experience craft worker in Wisconsin. Source: U.S. Department of Labor, Bureau of Labor Statistics



Construction Careers

Wisconsin Construction – Administrative Position Salaries

Construction Profession	Average Annual Compensation
Accountant	\$64,071
Administrative Assistant	\$41,172
Architect	\$87,253
Business Development Manager	\$141,426
CFO/Controller	\$136,858
Chief Estimator	\$114,546
Drafter/CAD Operator	\$59,551
Estimator I	\$54,761
Field Foreman	\$92,123
Network Administrator	\$50,759
Project Manager	\$98,010
Safety Director	\$97,676
Superintendent	\$91,794

*Compensation reflects annual salary and benefits.
Source: 2015 AGC Wisconsin Wage & Benefit Survey. PAS, Inc.



A.C.E. CAREER ACADEMY



ARCHITECTURE



CONSTRUCTION



ENGINEERING



Academy Mission Statement

To provide opportunities for Wisconsin high school students to acquire academic and technical skills needed for entry into the construction-trade workforce and/or postsecondary education.

ARCHITECTURE

CONSTRUCTION

ENGINEERING



Program Description

The A.C.E. Academy is a multi-year program that incorporates core academic subjects with construction-trade technical education classes, all taught by Academy teachers.

The program format will be flexible and portable, thereby allowing it to accommodate programs unique to particular high schools and be implemented statewide.

ARCHITECTURE

CONSTRUCTION

ENGINEERING



Objectives of the Program

- ✓ To promote a partnership among the school, parents, and the construction industry.
- ✓ To prepare students for careers within the construction industry
- ✓ To integrate core curriculum courses with industry classes.
- ✓ To offer educational experiences with construction industry personnel through job shadowing, service learning opportunities, field trips, and guest speakers.
- ✓ To act as a link between secondary and post-secondary education.

ARCHITECTURE

CONSTRUCTION

ENGINEERING



A.C.E. Academy Benefits

- A small learning community eases transition from school to work.
- Students are exposed to an integrated curriculum with a career field focus.
- Students gain knowledge and experience with work-based learning, while school's better meet the needs of tactile learners.
- The educational experience will enhance academy students' marketability to both post-secondary institutions and to their career pathways.
- Potential for applying credits earned toward partnering two-year technical college.
- Increased potential for financial contributions to support and improve schools facilities and resources.

ARCHITECTURE

CONSTRUCTION

ENGINEERING



Curriculum Example

(Kimberly High School, Kimberly, WI)

Architecture Requirements	Construction Requirements	Engineering Requirements
<ul style="list-style-type: none">• Intro to ACE Academy• ACE English• ACE Math 2• Architectural Design• Building Construction 1• Inter Design• Physics or Conceptual Physics• Job Shadow• Apprentice	<ul style="list-style-type: none">• Intro to ACE Academy• ACE English• ACE Math 2• Architectural Design• Building Construction 1• Building Construction 2• CAD• Job Shadow• Apprentice	<ul style="list-style-type: none">• Intro to ACE Academy• ACE English• ACE Math 2• CAD• Physics or Conceptual Physics• Mechanical Design• SMV• Job Shadow• Apprentice

Electives include: Building Construction 1 & 2, Intro to Electricity, Physics or Conceptual Physics, Leadership, Marketing 1 & 2, Metals 1 & 2, SMV, Welding 1 & 2, Computer Art, Architectural Design, Interior Design, and Principles of Management



SUMMARY

