



# Does this sound like you?

- Good at making designs or models
- Visualize projects in your mind
- Able to look at plans/instructions/blueprints and understand
- Enjoy designing a room, building, or gardens
- Able to use tools to build/create
- Like fixing things around the house

**ARCHITECTURE AND CONSTRUCTION  
MAY BE FOR YOU!**

# Architecture & Construction

Careers in designing, planning, managing, building and maintaining the construction industry.



## INTERESTS

- Enjoy working with their hands, using tools
- Have an aptitude for math and science
- Like solving or analyzing problems
- Building homes or other structures
- Building bridges and roadways

## CAREERS

Architect  
Brickmason or Cement Mason  
Electrician or Plumber  
Carpenter  
Structural Steel Workers  
Construction Inspector  
Elevator Installer/Repairer  
Roofer

## SUGGESTED HIGH SCHOOL COURSES

Algebra, Geometry, Construction, Science, Construction Materials, CAD, Computer Courses, Mechanical Drawing, Electricity and Electronics, Blueprint reading, Business Management

# Architecture & Construction Career Pathways



3 Career Pathways in this cluster:

- **Design/Pre-Construction** – Architect, Computer-Aided Drafter, Surveyor, Civil Engineer
- **Construction** – General Contractor, Construction Manager, Mason, Electrician, Welder
- **Maintenance Operations** – Heating/Air Mechanic, Landscaper, Estimator, Carpenter

**There are many hobbies and activities you could explore to learn more about architecture and construction. Try one or more of these activities:**

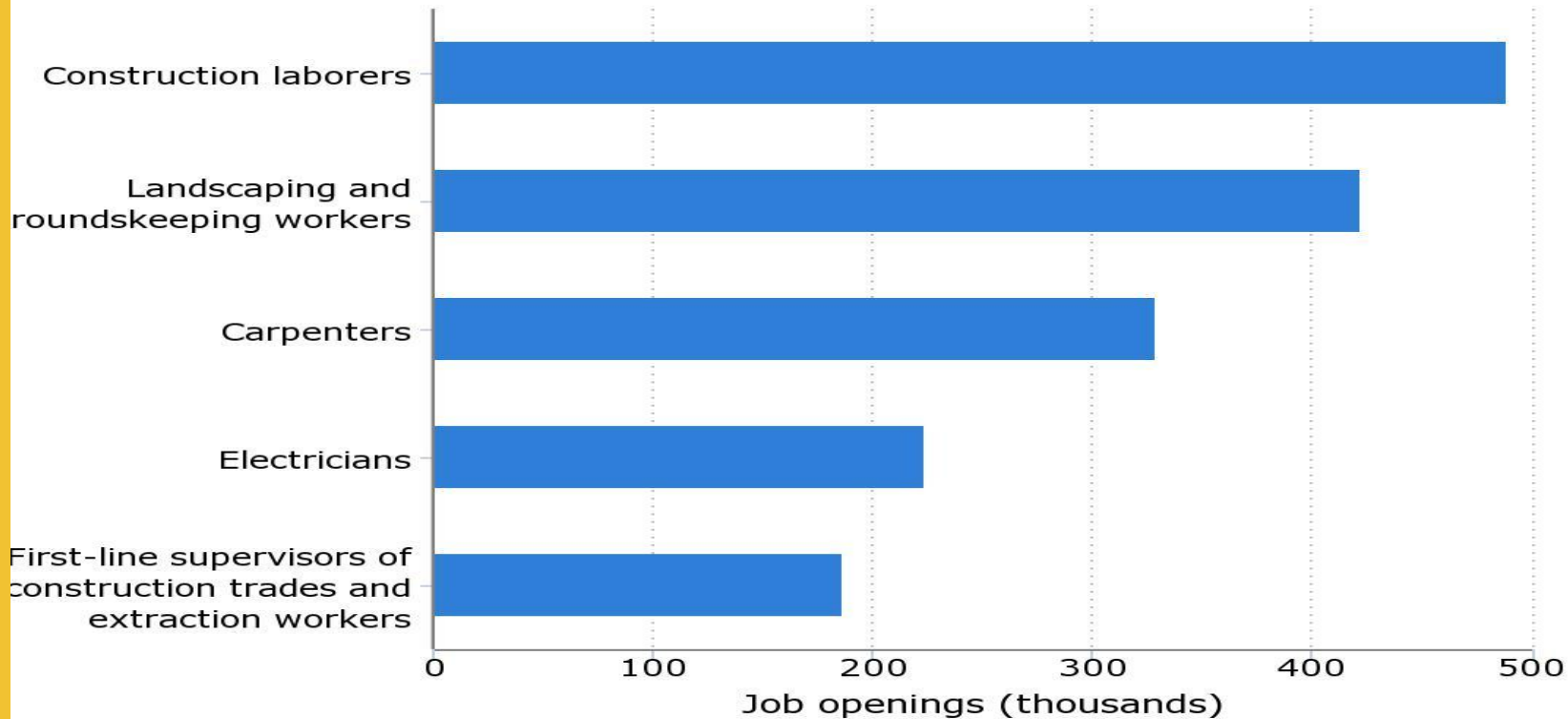
- Future Farmers of America (FFA)
- Volunteer to build homes with Habitat for Humanity or mission trips in other countries
- Math Club
- 4-H
- Skills USA
- Start a lawn mowing service.
- Do repair and home improvement projects.
- Job shadow at an architecture or home design firm.
- Volunteer to care for flowers at a park or community center.

# Architecture/Construction Career Cluster training requirements...

Landscaping and Groundskeeping Workers	High School Diploma & OJTraining/Certification
Construction Laborers	High School Diploma & OJTraining/Certification
Carpenters	High School Diploma & OJTraining/Certification
Electricians	Associate/Some College & OJTraining/Certification
Plumbers, Pipefitters, and Steamfitters	High School Diploma & OJTraining/Certification
Painters, Construction and Maintenance	High School Diploma & OJTraining/Certification
Heating, Air Conditioning, and Refrigeration Mechanics	Associate/Some College & OJTraining/Certification
Operating Engineers and Other Construction Equipment Operators	High School Diploma & OJTraining/Certification
Construction Managers	Bachelor's or more & OJTraining/Certification

**THESE ARE CAREERS WHERE YOU CAN START AT A LOWER LEVEL AND WORK YOUR WAY UP... COMPANIES MAY ALSO BE WILLING TO PAY FOR YOUR TRAINING AND ADDITIONAL SCHOOLING.**

**Chart 2. Occupations assigned to the architecture and construction cluster are projected to have the most job openings, 2012-22**



Sources: National Association of State Directors of Career Technical Education Consortium (Career Cluster); Bureau of Labor Statistics, Employment Projections program (projected job openings).

<b>Grade</b>	<b>English/ Language Arts</b>	<b>Math</b>	<b>Science</b>	<b>Health/Dig Cit. Phys. Education Social Studies</b>	<b>CTE/Career Preparation Courses For this Pathway</b>	<b>Other or Elective For this Pathway</b>	<b>Elective For this Pathway</b>
<b>9</b>	English 9	Algebra I (C level avail.)	ICP or Biology	Health/Dig Cit	Intro to Engineering Design	Physical Education	Prep for College & Careers/
<b>10</b>	English 10	Geometry/ Algebra II (C level avail.)	Biology or Chemistry	US History	Principles of Engineering	/Personal Financial Respons.	World Language
<b>11</b>	English 11	Algebra II/ Geometry (C level avail.)	3 <sup>rd</sup> Core 40 Science	World History & Civilization	Construction Technology I @ JGHS		
<b>12</b>	English 12	Math or Quantitative Reasoning		US Government/ Economics (QR)	Construction Technology II @ JGHS		

Concurrent Enrollment Opportunities:

IVY Tech – North Central – CONT 101 – Intro to Construction Technology





**Architecture and Construction**