

# 10 HOT

## Construction STEM Jobs by Salary

	Construction Manager	Civil Engineer	Architectural Engineer	Commercial Electrician	Pipefitter
<b>What will I do?</b>	From start to finish, you create the plan for building a construction project, beginning with organizing budgets and cost and time estimates for all the labor and materials needed to complete it. Through working with specialists such as architects, civil engineers, plumbers, electricians, and carpenters, you are the person who makes sure workers are building according to local regulations and working safely.	During construction, you are responsible for planning the entire infrastructure—or pieces that make up a structure. In addition to making sure the building that a client wants is a realistic design, you gather the appropriate licensing and follow all the rules so the project can be built legally. You'll estimate cost and plan to use the best materials for a safe, well-designed building that is within the budget.	As part of a design and construction team, you work with architects, engineers, project managers, and construction workers to complete a project. You also meet with clients to make sure the project is being completed according to their demands. In this role, you use CAD (computer-aided design) and organize the correct licenses, if necessary.	Using blueprints and technical drawings, you plan, install, test, and maintain wiring and controls that provide power to a location. Maintaining existing electrical systems during construction is also important. You find any electrical problems, provide repairs, and make sure all systems that use electricity are working safely.	By installing pipes that carry strong elements, you make sure that systems are laid out correctly in a building. Some pipefitters specialize in a certain area such as gasfitting, sprinkler fitting, or steamfitting. Before starting a project, you examine a space, study building plans and blueprints, consider the pipe needs, and provide a cost estimate to your client.
<b>Median Salary*</b>	<b>\$91,370</b>	<b>\$84,770</b>	<b>\$63,605</b>	<b>\$54,110</b>	<b>\$52,590</b>
<b>Education Required</b>	Bachelor's degree in construction science, construction management, architecture, or engineering	Bachelor's degree in civil engineering	Bachelor's degree in architectural engineering	High school diploma and apprenticeship	Trade school and apprenticeship
<b>STEM Type</b>	 Integrator	 Solver	 Maker	 Maker	 Solver
<b>Will I like it?</b>	You always take the lead on group projects.	You research local building codes before constructing a sandcastle at the beach.	Your pillow and blanket forts were impenetrable.	Your curiosity about outlets was a problem as a toddler.	Your hamster's tunnel system is more complex than the New York City subway.
<b>Schools that Train<sup>^</sup></b>	<ul style="list-style-type: none"> <li>• Eastern Kentucky University</li> <li>• Mississippi State University</li> <li>• Norwich University</li> </ul>	<ul style="list-style-type: none"> <li>• Carnegie Mellon University</li> <li>• Lake Washington Institute of Technology</li> <li>• Lamar University</li> </ul>	<ul style="list-style-type: none"> <li>• Norfolk State University</li> <li>• University of Alaska Anchorage</li> <li>• University of Colorado Boulder</li> </ul>	<ul style="list-style-type: none"> <li>• High school diploma and apprenticeship</li> </ul>	<ul style="list-style-type: none"> <li>• Trade school and apprenticeship</li> </ul>
<b>Who's Hiring</b>	<ul style="list-style-type: none"> <li>• Independent Construction Companies</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Firms</li> <li>• Local, City, and State Governments</li> </ul>	<ul style="list-style-type: none"> <li>• Architectural Design Firms</li> <li>• Local, City, and State Governments</li> </ul>	<ul style="list-style-type: none"> <li>• City Governments</li> <li>• Independent Contractors</li> </ul>	<ul style="list-style-type: none"> <li>• Department of Defense</li> <li>• Department of Homeland Security</li> <li>• Merck USA</li> </ul>

\* Salary information provided by the Bureau of Labor Statistics.  
<sup>^</sup> Schools are chosen based on current program offerings.  
<sup>†</sup> Companies are chosen based on current job openings.

WANT TO KNOW YOUR STEM TYPE?  
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TO FIND IT!

### Civil Engineering Technician

By supporting civil engineers, you take on a variety of tasks to help make the construction process run smoothly. You can assist with reviewing plans, take soil samples, prepare reports, prepare drawings, maintain files, and collect data.

**\$51,620**

Associate degree in civil engineering



Producer

No one could build a block tower higher than yours. No. One.

- Bishop State Community College
- Erie Community College
- Portland Community College

- Engineering Firms
- Local, City, and State Governments

### Architectural Designer

Meeting with clients, you talk about what they want to build and how you're able to plan their ideas using CAD (computer-aided design) and renderings. During the design process, you meet with engineers to decide how to make a client's idea a reality. As the project is being constructed, you watch to make sure the team is following your design and using safe practices.

**\$51,000**

Bachelor's degree in architecture



Designer

You dream in CAD.

- Indiana State University
- Lamar University
- Portland State University

- Architectural Design Firms

### HVAC Installer/Technician

It's your job to install heating, ventilation, cooling, and refrigeration systems during construction. As an HVAC technician, you also inspect and test systems, making repairs as you find broken parts. You also communicate the right way to maintain the system to clients and show them how they can keep everything running smoothly.

**\$47,080**

Trade school and apprenticeship



Producer

If you had your way, the air conditioner would run all year long.

- Trade school and apprenticeship

- Independent Contractors

### Carpenter

In this job, you have many duties during construction as you build the exterior of a building or framing for its interior rooms. You study blueprints, measure materials, and install walls, windows, and supportive materials. As each piece of your project is almost finished, you inspect it to make sure it is secure, safe, and works properly.

**\$45,170**

High school diploma and vocational training



Maker

You know how to use a T-square.

- High school diploma and vocational training

- Construction Companies
- Independent Contractors

### Cement Mason

After studying plans and blueprints, you decide how to use concrete to lay a foundation, sidewalk, supportive beams, or driveway. This job requires you to consider how weather affects the concrete as it sets and during its lifetime as it's exposed to different conditions. You also decide how to use supportive materials such as a wire mesh called lath and rebar to make sure concrete is secure.

**\$42,900**

High school diploma and apprenticeship



Designer

You would never dream of putting your hands in wet cement. Someone worked hard on that!

- High school diploma and apprenticeship

- City Governments
- Independent Contractors