



NEXT-GEN CAREERS

STEM/STEAM Activity Cards

Map your career route!

Stop scrolling for career advice.
Start building your future.

This is your direct pipeline to the most innovative, in-demand jobs.



Bonus Resources



Tool Bundles

FRONT: THE MISSION BRIEFING

The front of every card is your quick, high-impact career download. It's a blend of visuals and key facts that instantly immerse you in a professional world.

Think of it as your **VIP Pass**—a **mission briefing** that gives you the background, the context, and the "why" before you even start.

BACK: THE TECHNICAL CHALLENGE

Flip the card over. This is where the real work begins. You receive a technical challenge straight from a professional's playbook.

The challenge guides you to:

- ◆ **SKILL SYNCHRONIZE:** Instantly connect your current **STEM Skills** (like data analysis, circuit design, and engineering principles) to the core task.
- ◆ **GEAR UP:** Identify and use the exact **Tools and Materials** you have, whether it's specialized software, a robotics kit, or artificial intelligence programs.
- ◆ **GO HANDS-ON: Imagine, Build, and Execute!** This isn't theoretical. Acquire and apply *new skills* as you work through a practical, real-world activity that proves you can do the job.

ELEMENTS OF EACH CARD

FRONT

- 01 **Career Description:** A snapshot of the job
- 02 **Average Starting Salary:** Expected annual pay for entry-level workers
- 03 **Minimum Qualifications:** Education or experience needed to start
- 04 **Work Environments:** Typical settings where this job is performed

01 ENVIRONMENTAL SCIENTIST
Conduct research, monitoring, and analysis to assess environmental problems and develop solutions

02 AVERAGE STARTING SALARY: \$18,000 - \$20,000
Bachelor's Degree

03 MINIMUM QUALIFICATIONS: Bachelor's Degree

04 WORK ENVIRONMENTS: Fieldwork, Laboratory, Data Analysis

BACK

- 05 **Station of STEM®:** A TechTerra trademarked concept that refers to a system for understanding and organizing learning centers for the purpose of exploring the world of STEM and STEAM
- 06 **Materials:** STEM tools and materials needed to complete the card
- 07 **Vocabulary:** Highlights key technical terms and industry jargon you will encounter during the activities
- 08 **What If:** Future focus and innovation to stretch your thinking about the career concept

05 STATION OF STEM®: A TechTerra trademarked concept that refers to a system for understanding and organizing learning centers for the purpose of exploring the world of STEM and STEAM

06 MATERIALS: Artificial intelligence tools, Student device

07 VOCABULARY: Waste management, Natural resources, Water, Pollution, Biodiversity

08 WHAT IF... It's the year 2570. Climate change and industrial expansion have dramatically altered Mississippi's environment. New, untested pollutants—colossal tober—are found in groundwater, rivers, and coastal zones. Existing remediation systems are proving ineffective or too slow. Sketch or describe a remediation process which will generate energy or create sustainable by-products. Explain how you would ensure the solution is affordable and scalable, even in low-income regions.

Learn more about Next-Gen Careers
www.techterraeducation.com

STATIONS OF STEM®

The Stations of STEM® framework is the foundation of our hands-on approach to learning — connecting Robotics, Drones, Coding, and more with creativity and design to inspire the innovators of tomorrow.



Artificial
Intelligence



Augmented
Reality



Circuitry



Coding



Connected
Learning



Digital
Storytelling



Drones &
Flight



Engineering
Design



Robotics



Learn more about
TechTerra Education's
Stations of STEM®

INDUSTRY COLOR KEY



Technology / Computer Science



Healthcare / Biotech



Renewable Energy / Sustainability



Advanced Manufacturing / Skilled Trade



Business, Finance, Analytics



Creative Industries / Digital Media



Education / Social Services



Transportation / Logistics



Other

