

# make STEM 100%

**In the US, only twenty percent of high school graduates are prepared for college-level coursework in STEM. And let's be real—that number is wayyy too low! This guide will help YOU and your peers make STEM readiness 100%!**

Many of us are aware of STEM, but we aren't fully sure how we fit into the field. In a world where we are looking to create long, lasting change, learning how STEM careers can help make a difference is of the utmost importance!

STEM can often feel daunting—and with a lack of educational opportunities and resources available to you—can feel like you don't belong. But what makes it so cool is that there is something for everyone! Interested in marine biology? STEM. Love video games and computers? STEM. Fascinated by solar energy? STEM. Perhaps you love building things or are fascinated by how cars work? You guessed it! STEM. There truly is something for everyone in the world of STEM! Use this guide to find tools and resources that will help forge your future in STEM and give you the confidence to envision yourself in the field.

## WORDS OF WISDOM

Sometimes, we all need words of encouragement. We gathered up some of our favorite STEM superheroes and asked them to share advice on confidence building and pursuing your own path in STEM.

If you love STEM and want to pursue a STEM career, it is possible for you. Find your community to support you in achieving your goals; friends that love STEM like you do and mentors that support and encourage you in your journey.

– TOKIWA T SMITH, CHEMICAL ENGINEER, FOUNDER & EXECUTIVE DIRECTOR, [SEM LINK](#)

Those who say they can, and those who say they can't are usually both correct. If you want to build a career in STEM make sure you never take no for an answer!

– JASON CLARK, EXECUTIVE DIRECTOR, [TECHNYC](#)

The M in STEM is your friend, passionately pursue conquering Math at every step of the way. Talent in Math is not inherited, you must practice! Apply the Engineering Design Process to your life, failure is not fatal, it is a part of the learning cycle and often where we learn the most.

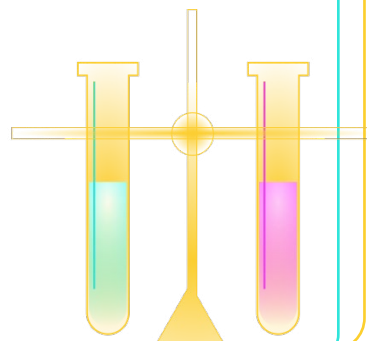
– THERESA HALL, SENIOR VICE PRESIDENT, [PROJECT LEAD THE WAY](#)

Go for it! Don't be afraid to ask questions. Ever. Even if the answers feel like they're obvious to others. And ask for help early if you need it!

– CARSEN MATA, SUSTAINABILITY COMMUNICATIONS MANAGER, [GENERAL MOTORS](#)

Don't be afraid to try something new and different. Use your passions to drive excitement for a career. Persevere through the challenges that will help grow and shape you into someone you want to be!

– CONNOR ALEXY, APPLICATION ENGINEER, [3M](#)



## 2 TRUTHS AND A LIE

It is expected that the number of STEM jobs will continue to increase by 8 percent every year for the next 7 years. Yet, despite its unprecedented growth, STEM remains one of the least inclusive and diverse job sectors. Not. Cool.

Play a quick game of “Two Truths and Lie” to learn more about the misconceptions and inequities in STEM.

**FACT 1:** 2 out of 3 U.S. women say they were not encouraged to pursue a career in STEM.

**FACT 2:** 90% of districts primarily serving black and Latinx students reported difficulty in recruiting and retaining certified STEM teachers.

**FACT 3:** 75% of the schools in the U.S. offer computer science classes.

### What's the lie?

Flip this guide upside down to learn the answer.

ANSWER: Fact 3 is the lie! Actually less than half of the schools in the US offer a computer science curriculum. Another reason why the need for robust and equitable STEM education in schools is at an all-time high!

# Your Future in STEM

Building your roadmap to STEM has never been easier! Check out these resources to help you further your STEM education, broaden your employment opportunities, and gain valuable mentors and internships.

## EXPANDING YOUR HORIZONS

Still not sure if STEM is for you? These resources will help broaden your view on STEM and gain educational information to help you further understand more about how STEM fits into your day-to-day life.

### CAREER GIRLS

An online video platform to help you learn and hear from mentors about career clusters (like STEM), and see what careers are available to you.

### GIRLS WHO CODE

Girls Who Code offers programs—both after school and during the summer—working to close the gender gap in technology and coding.

### SEM LINK INC.

Programs designed to increase K-12 students' awareness of STEM careers through digital learning and hands-on activities.

### STEAM IN AI RESEARCH AND BUILD PROGRAM

A college prep program that matches high school students with a Ph.D. student for 1:1 learning and career mentoring in the STEM field.

## EXPLORING STEM CAREERS

Securing employment in an ever-changing job market can feel overwhelming. These resources will help you explore job opportunities in the STEM field and serve as a roadmap to finding your future in STEM!

### TECH: NYC

Explore employment opportunities across Tech:NYC's member network.

### SCIENCE CAREERS

A hub with career tools and job listing for those interested in a career in science.

### REMOTE TECH JOBS

A newer IT job board specializing in remote positions.

### NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE (NASEM)

Bring your talents to NASEM to use science to address the nation's most pressing issues.

### BIOSPACE

A career platform connecting the industry's brightest talent with the most innovative organizations.

## PURSuing EDUCATIONAL AVENUES

Knowledge is power! Expand your horizons and knowledge of STEM with these programs designed to further your access and understanding of the field.

### INSTITUTE FOR BROADENING PARTICIPATION

A resource bank full of programs and fellowships for K-12, undergraduate, and graduate students, with an emphasis on underrepresented groups.

### LAUNCHCODE

A nonprofit offering free tech education and job placement opportunities in the tech field.

### STEMUNDERGRADS

The ultimate source for searching federally-sponsored opportunities in STEM.

## FINDING COMMUNITY

Mentors and community are key to your success in STEM. Access to like-minded individuals will help you visualize yourself in the field.

### ALL TECH IS HUMAN

A mentorship program for young people to help facilitate career development and connections in the responsible technology field.

### STEMNET

The go-to resource for STEM internship opportunities and summer programs.

### GREEN CITY FORCE

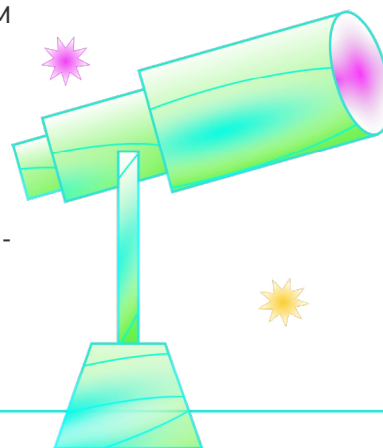
A structured, six-month experience combining in the field work with classroom training to address issues like sustainability.

### WOODS HOLE OCEANOGRAPHIC INSTITUTE: MINORITY SCIENCE ORGANIZATIONS

Check out this comprehensive list of STEM organizations devoted to serving minority populations.

### ORISE

ORISE connects the most talented and diverse college students with STEM internships and fellowship programs.



## READY, SET, STEM!

Want to ensure STEM is accessible to all your peers? Scan the code or visit <https://www.dosomething.org/us/makestem100-contact> to learn more ways you can get involved with making STEM 100%!