

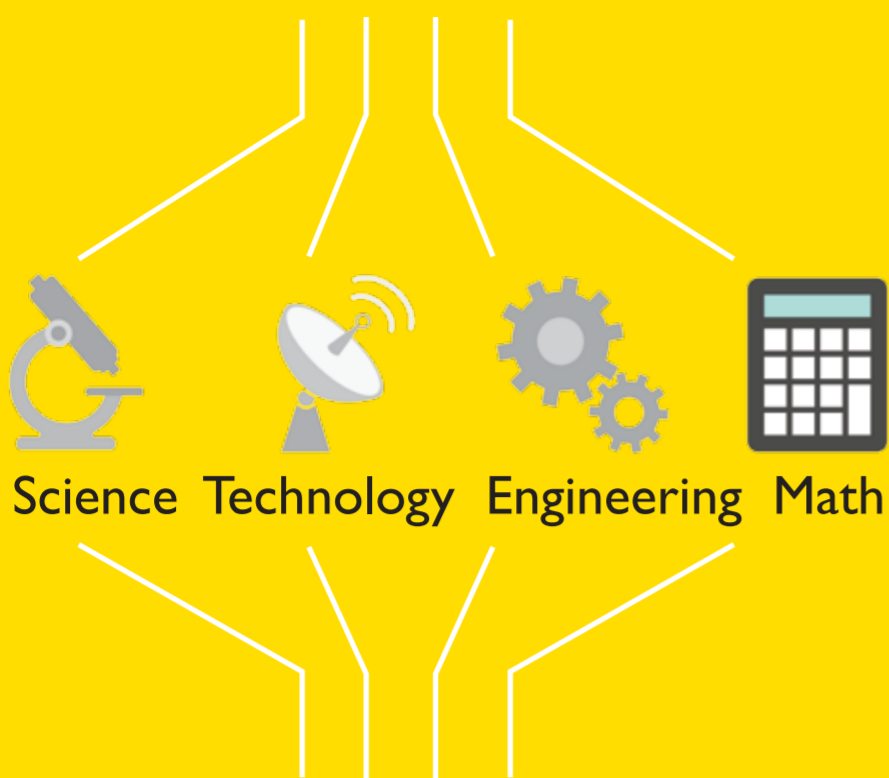
CERTified Education Training

FANUC has over **3 million** CNCs, robots, and factory automation systems installed.

STEM Education

American schools are missing key components of STEM education...

What is **STEM** education?



Only **16%** of American high school seniors are proficient in math and interested in STEM careers.



30% of high school seniors who took the ACT were cleared for college-level sciences.

Robotics and Advanced Automation

Robotics and advanced automation support all aspects of STEM education. FANUC's CERT program trains students to use the latest robotic automation while applying STEM.

Among industrialized nations, the U.S. ranked...

25th in math
17th in science



Skills-Gap

[skil-gaep] noun

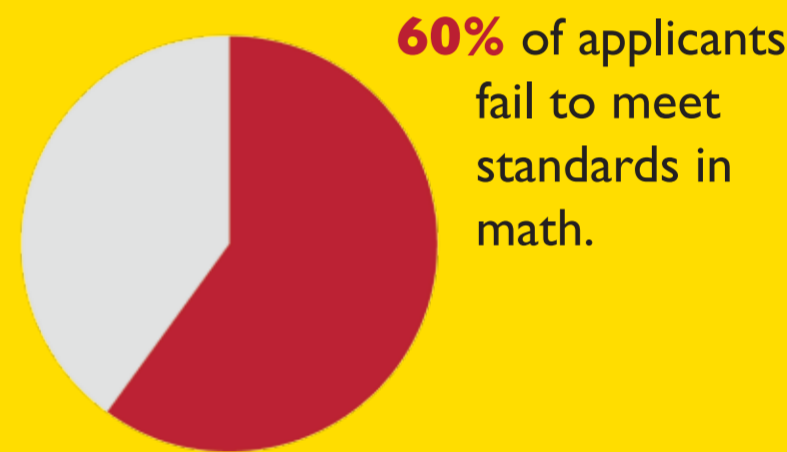
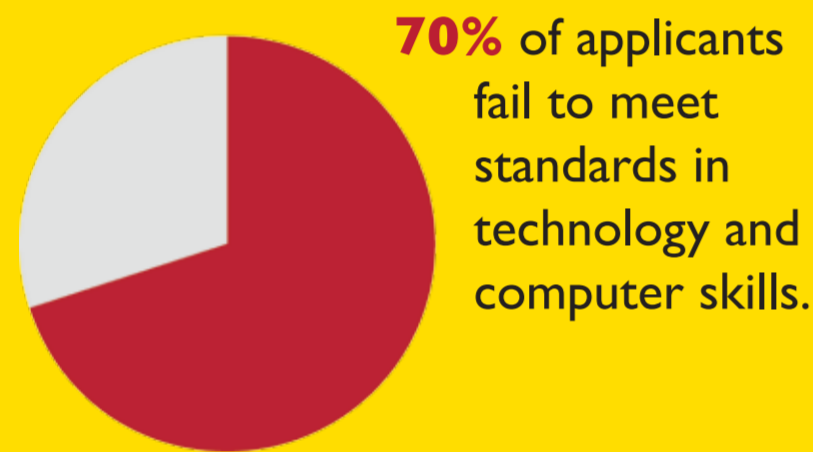
The difference between skills a worker possesses and those an employer requires for the job.

3.4 million manufacturing jobs will be available in the next 10 years.



Only **1.4 million** qualified employees will fill these jobs. Which means **2 million** jobs will be unfilled due to the lack of skilled workers.

Manufacturers say...



STEM Solution

As more companies incorporate automation into their operations, the demand for skilled workers to operate them is increasing.

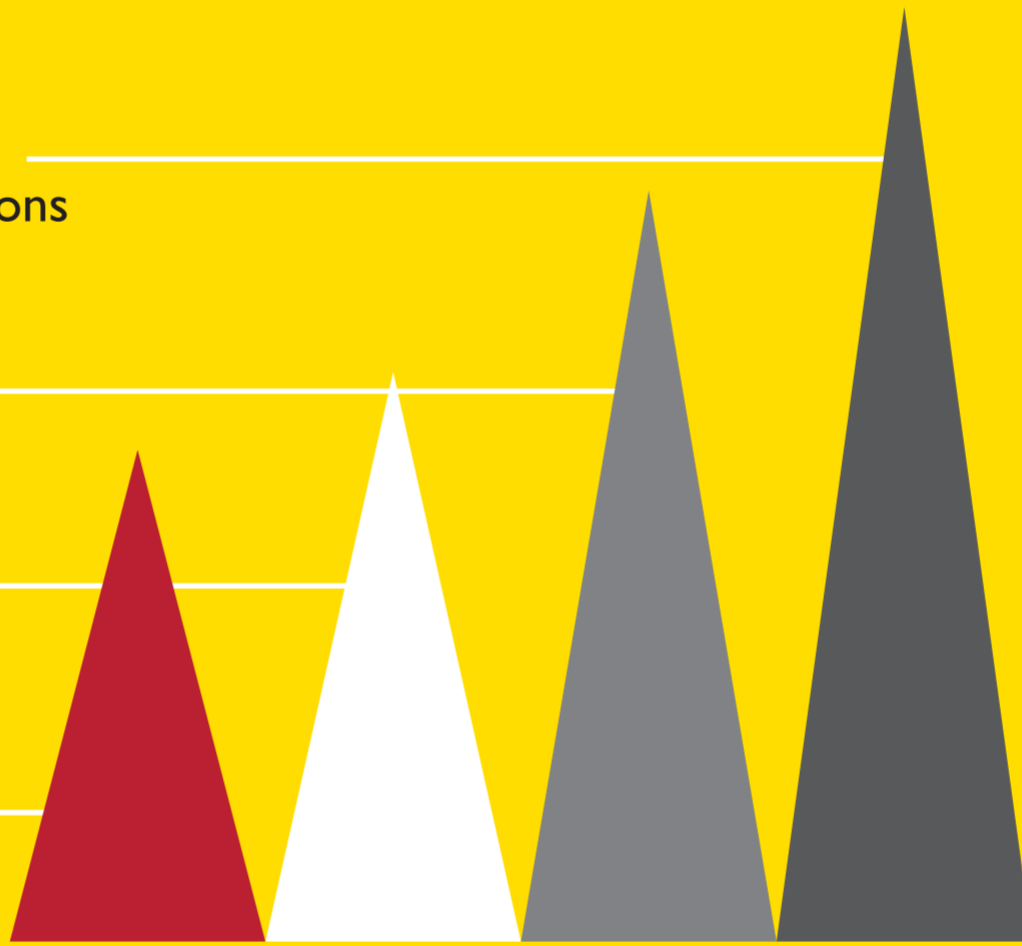
The average salary for...

STEM research, development, design, or practitioner occupations
\$90,900/year

all STEM occupations
\$79,640/year

STEM technologist and technician occupations
\$49,930/year

all occupations in the U.S.
\$46,440/year



The average annual salary for STEM workers is **\$33,200 MORE THAN** the average salary of all occupations in the U.S.

FANUC's CERT program is partnering with education to produce a more qualified workforce while applying STEM.

FANUC CERT



The CERT program works to develop and support an effective, comprehensive education network dedicated to increasing knowledge and awareness in advanced automation through stackable credentials (certifications) to help train the next generation of skilled workers. This is achieved by certifying instructors at educational institutions to train their students to program FANUC automation systems through on-line and hands-on training courses.



The CERT educational mobile lab includes CNC, ROBO DRILL, robots, and intelligent applications such as iRvision, force sensing, Dual Check Safety, collaborative application, integrated PLC solutions, and a wide range of hardware and software features including...

- Web courses on robot operations and programming
- Automation software
- ROBOGUIDE and CNC simulation software
- Curriculum