

STEM & Our Planet

The environment is a compelling context for teaching and engaging today's students in science, technology, engineering and math (STEM).



SCIENCE



Green chemistry alone is expected to grow from a **\$2.8 billion** industry to about **\$100 billion** by **2020**.

Environmental science jobs are expected to grow by **25%** by **2016** — the fastest among the sciences.

TECHNOLOGY



78% of businesses and organizations believe that the value of job candidates' environmental knowledge will increase in importance as a hiring factor.



By **2018**, there will be **1.4 million** American computing job openings, but only **29%** of those are expected to be filled by U.S. graduates.



Only about **1 in 18** workers in America currently are in STEM fields.

By **2014**, about **2 million** STEM-related jobs will be created.



95% of STEM college students believe that math/STEM can help prepare students to address the world's toughest problems.



57% of math/STEM college students say that, before college, a teacher or class got them interested in STEM.



Nearly **4 in 5** STEM students decided to study math/STEM in high school or earlier.



Employment of mathematicians is expected to grow by **22%** between **2008-18**, much faster than average for all occupations.

MATH

99% of kids ages 6-11 believe that it's important to care for the environment.

92% of teens are concerned about our environment.



About **2 million** organizations and businesses now produce or offer green goods or services.



Environmental engineers are expected to have employment growth of **31%** between **2008-18**, much faster than average for all occupations.



Workers with a STEM background have earned about **26%** more, with engineers earning some of the highest avg. starting salaries for bachelor's degrees.



Civil engineers, who increasingly deal with the environment, are expected to have employment growth of **24%** between **2008-18**, much faster than avg. for all occupations.

ENGINEERING

Sources:

Boys & Girls Clubs of America
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