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.
- By 2014, about 2 million STEM-related jobs will be created.
- Only about 1 in 18 workers in America currently are in STEM fields.

TECHNOLOGY

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

MATH

- 95% of STEM college students believe that math/STEM can help prepare students to address the world's toughest problems.
- Nearly 4 in 5 STEM students decided to study math/STEM in high school or earlier.

ENGINEERING

- 99% of kids ages 6-11 believe that it's important to care for the environment.
- 92% of teens are concerned about our environment.
- 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.

Sources:
- Boys & Girls Clubs of America
- Business & Environment Program of NEET
- Economics and Statistics Administration, U.S. Dept. of Commerce
- Harris Interactive
- Kelton Research
- National Center for Women & Information Technology
- NC STEM Community Collaborative
- Piko Research
- Rutgers, The State University of New Jersey

Find out more: www.eeweek.org