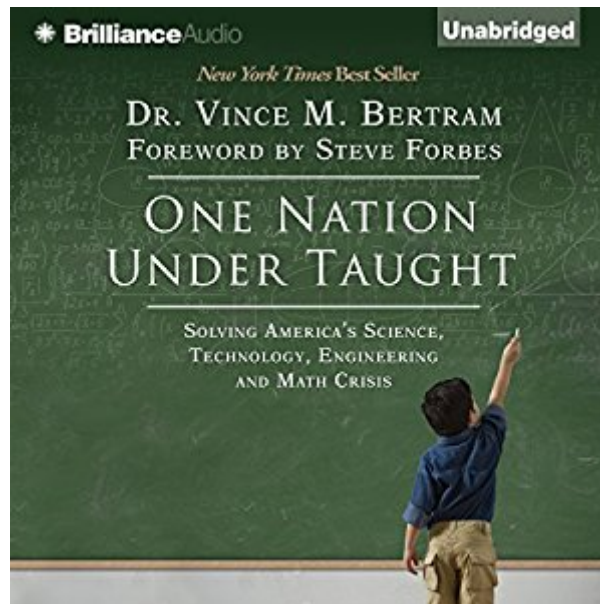# One Nation Under Taught: Solving America's Science, Technology, Engineering & Math Crisis

Synopsis

America has been steadily sliding in global education rankings for decades. In particular, our students are increasingly unable to compete globally in STEM (science, technology, engineering, and math) fields. According to the National Assessment of Education Progress (NAEP), in 2010 only 26 percent of high school seniors in the U.S. scored at or above proficient level in math. Another 36 percent were failing. Only 3 percent scored at an advanced level in math, and only 1 percent scored at an advanced level in science. Students in K-12 across the U.S. struggle with STEM subjects, often because the subjects are poorly presented or badly taught. When students reach college, they choose to pursue non-STEM degrees, and too many struggle to find jobs upon graduation. Meanwhile, U.S. employers are having an increasingly hard time filling STEM jobs. Economic projections for the next decade show we will need approximately 1 million more professionals in STEM fields than our education system will produce. If we want to maintain our historical pre-eminence in science and technology, we must increase the number of students graduating with STEM degrees by 34 percent each year. One Nation Under Taught offers a clear solution, providing a blueprint for helping students fall in love with STEM subjects, and giving them the tools they need to succeed and go on for further study in these fields. The audiobook challenges our whole way of thinking about education, and encourages educators and policy-makers at all levels to work together to make our schools places that promote curiosity and inspire a love of learning. If we do not change course, we will set our students and our country on the path to a lifetime of poverty. But if we can implement the reforms Dr. Bertram suggests, we can achieve long-lasting prosperity for our children and our nation as a whole.

Book Information

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Customer Reviews

This is a shockingly bad book. Either the author does not genuinely understand issues of science, technology, engineering and mathematics (STEM) education and policy or he is being deliberately misleading and partisan. Given his admirers are billionaires, right-wing corporate news pundits and petroleum companies it seems more of the latter.There is no STEM crisis as the author believes or wants us to believe. This has been thoroughly debunked in "Is American Science in Decline? by Yu Xie and Alexandra A. Killewald (2012) and "Falling Behind? Boom, Bust & the Global Race for Science Talent" by Michael S. Teitelbaum (2014).Facts contradict the author's talking points. Contrary to what the author believes, the United States generates more STEM graduates every year than there are STEM job openings. Here are some recent numbers:277,000 new STEM positions per year (avg.)392,000 new STEM degrees per year (avg.)Just being a Capitalist about this (are you listening Steve Forbes?), if there were shortages of STEM workers then wouldn't wages being going up? But they are not: Ph.D. research scientist, wages are flat, even information technologists are relatively stagnant but Oil and Gas engineers are dramatically increasing! National Academies is reporting a glut of Ph.D. scientists, researchers and lab-bench workers. Post-docs are finding it difficult to get full-time positions with many changing fields after 10 years. For sure, there are shortages in different regions changing over time but there is not an overall shortage. The American Society of Biochemistry and Molecular Biology did a survey found 1 in 5 scientists were thinking about leaving the U.S. for other opportunities.

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