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# Refueling the U.S. Innovation Economy: STEM Reform

*Dr. Robert Atkinson*

*President*

*Information Technology*

*and Innovation Foundation*

ITIF is public policy think tank committed to articulating and advancing a pro-productivity, pro-innovation and pro-technology public policy agenda internationally, in Washington and in the states. ITIF focuses on:

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# Problems with Assumptions of Current Approach to STEM

- **Improving STEM is not a Linear, Mechanistic Process**
- **Giving All Students Some STEM is Expensive**
- **More Money Won't Solve the Problem**
- **More Requirements and Mandates Won't Solve the Problem**

# Limitations of the “Some STEM for All”

## ■ Approach

“Some STEM for All” approach is to make sure that every high school graduate and a much larger share of college grads become proficient in STEM.

Interventions at the K-12 level include:

- boosting K-12 teacher quality (e.g., increasing teacher pay, requiring higher STEM teacher qualifications)
- more rigorous STEM standards (e.g., expanding requirements for STEM courses, more rigorous testing and assessment)
- improving curriculum, and
- boosting awareness among students of the importance and attractiveness of STEM careers

## ■ Need a new “All STEM for Some” Approach

- More project based learning
- More STEM High Schools
- More Incentives at University and College Level to Graduate STEM students

# Thank You

Robert D. Atkinson      [ratkinson@itif.org](mailto:ratkinson@itif.org)

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