Building a 21st Century Workforce
To Develop Tomorrow’s New Treatments and Cures

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1. **STEM Jobs of Value to U.S. Economy**

   ...while only about five percent of the U.S. workforce is employed in STEM fields, the STEM workforce accounts for more than fifty percent of the nation’s sustained economic growth.

   —U.S. Department of Labor

2. **U.S. Biopharmaceutical Industry Key Generator of STEM Jobs**

   The biopharmaceutical industry directly employs 650,000 employees and supports a total of 4 million jobs across the U.S. economy.

3. **STEM Jobs Offer High Wages**

   The average earnings for science and engineering (S&E) workers is nearly twice as high as that of all U.S. workers.

   - **$80,170**
   - **$44,410**

4. **U.S. Biopharmaceuticals Rare Source of High-tech Job Growth by 2020 in STEM-Related Manufacturing**

5. **STEM Jobs Provide Stable Employment, Less Joblessness**

   Science and engineering workers experience less joblessness than all U.S. workers.

   - **2.3%** (1983-2009 Unemployment Rate)
   - **6.1%** (1983-2009 Unemployment Rate)

6. **U.S. STEM Education Pipeline in State of Crisis**

   U.S. economic future depends upon improving pipeline into STEM fields

   - U.S. Department of Labor
   - Lack of coordination and substantial overlap in federally funded STEM education programs
   - Government Accountability Office Study

7. **U.S. High School Students Not Globally Competitive in Science and Math**

   U.S. students achieve average science scores & below average math scores on 2009 Program for International Student Assessment (PISA).

   - **STEM** workers play a key role in the sustained growth and stability of the U.S. economy, and are a critical component to helping the U.S. win the future.

   —U.S. Department of Commerce

8. **Japan, China Lead in STEM Degrees**

   Japan & China have nearly twice the U.S. rate of bachelor's degrees in science and engineering. Once a leader in STEM education, the U.S. now ranks 28th among all nations in proportion of 24-year-olds who earn degrees in science or engineering.

   —Congressional Research Service

9. **STEM Education Critical for U.S. Economic Growth**

   “The U.S. is now putting its future at risk by forfeiting its historical strengths in STEM education. The proportion of STEM degrees among college graduates has been falling in the past decade.

   Without action, it is likely that this proportion will continue to drop.”

   —President’s Council of Advisors on Science and Technology

10. **STEM Jobs to Grow at Higher Rates than Non-STEM Jobs**

   [STEM] workers play a key role in the sustained growth and stability of the U.S. economy, and are a critical component to helping the U.S. win the future.

   —U.S. Department of Commerce

11. **Shortage of STEM Workers Key Concern for U.S. Industries**

   - U.S. needs to produce 1 million additional STEM graduates over the next decade to maintain its position as the world’s leader in science and technology innovation.
   - 55% of company executives already experiencing shortage of STEM workers.
   - 95% of surveyed Fortune 1000 executives concerned U.S. is losing global leadership position due to lack of STEM talent.