What IT Jobs Have to do With K-12 Education: Everything

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Topics

- Opportunities
- Vulnerabilities
- Students Today
- Our Efforts
- What You Can Do
Opportunities

- Jobs available across sectors
- Significant competition for talent
- Maryland is hub for cybersecurity activity
- 46,000 Computer & Math jobs by 2020 (MD DLLR website)
- 19,000 cybersecurity jobs are now available
Vulnerabilities

- In many sectors, including finance/banking; transportation; utilities
- Military/Governmental
- Private industry business information
We are not producing enough students with degrees in STEM fields.
In 2005, approximately 6.1% of college graduates earned degrees in STEM areas; in 2011, this decreased to 4%
This compares with almost 47% in China, 38% in South Korea, and 28% in Germany
Our Efforts

- Centers of Academic Excellence
- Internships, work study programs, and scholarships
- Encouraging technical programs in post-secondary schools.
What You Can Do

- Encourage high school student to study hard
- Encourage those in STEM programs to stick with it!
- Focus on Middle School Math
- Provide incentives for students to enroll in Computer Science when in a Maryland High School