

The Future of the IT Industry



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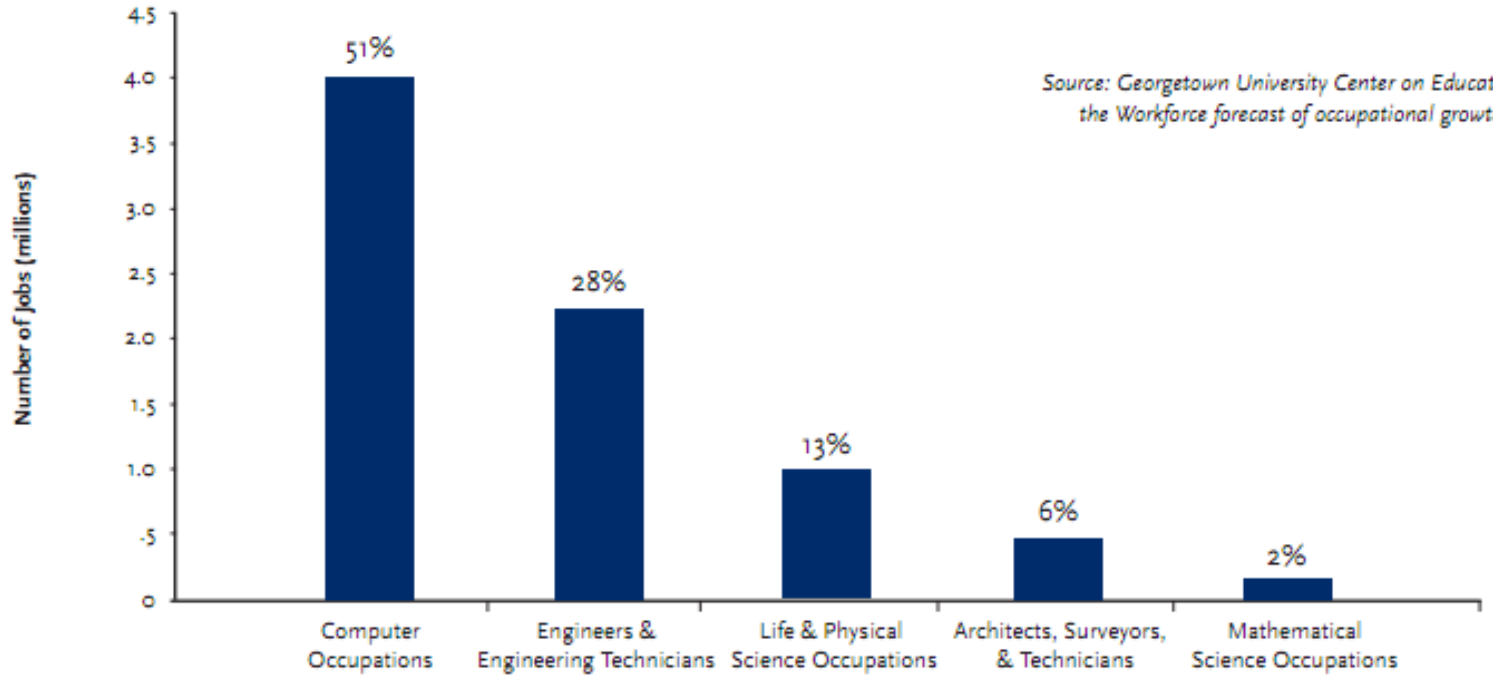
Data Source:

<http://logos.cs.uic.edu/recruit/csstatistics.htm>

North Tonawanda High School
Academy of Information Technology

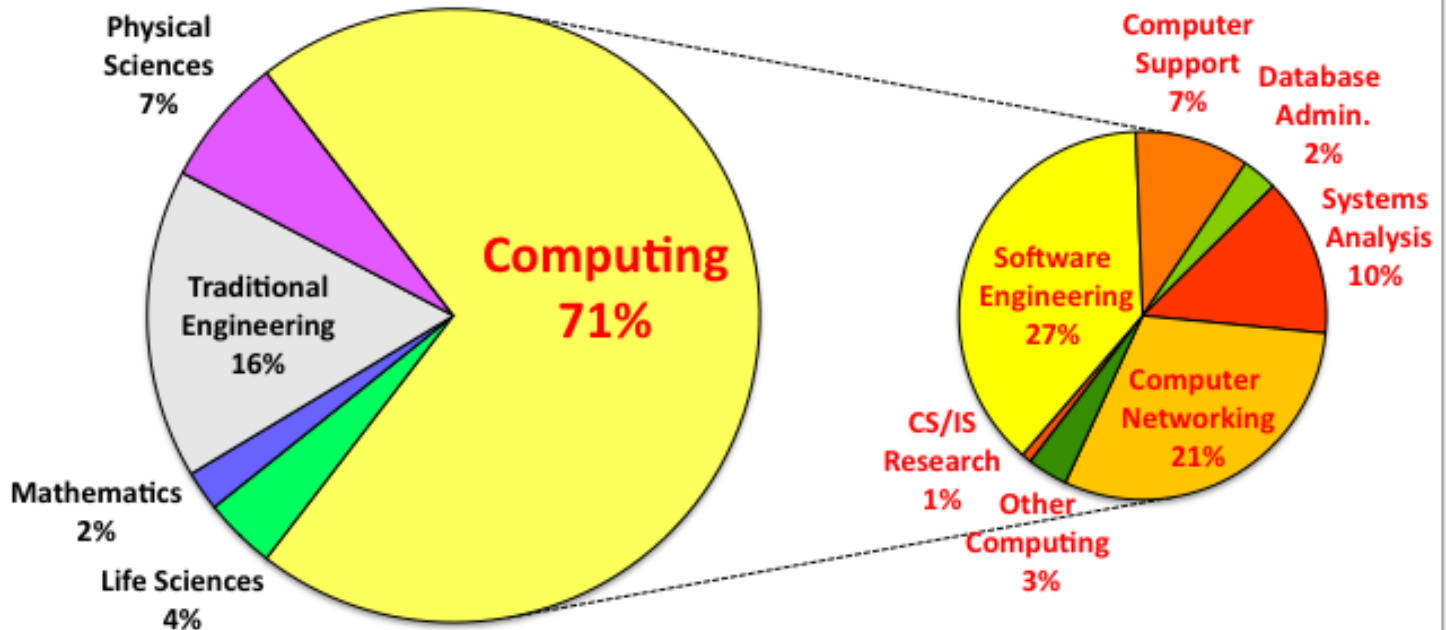


Figure 1: Computer occupations dominate STEM: 2018



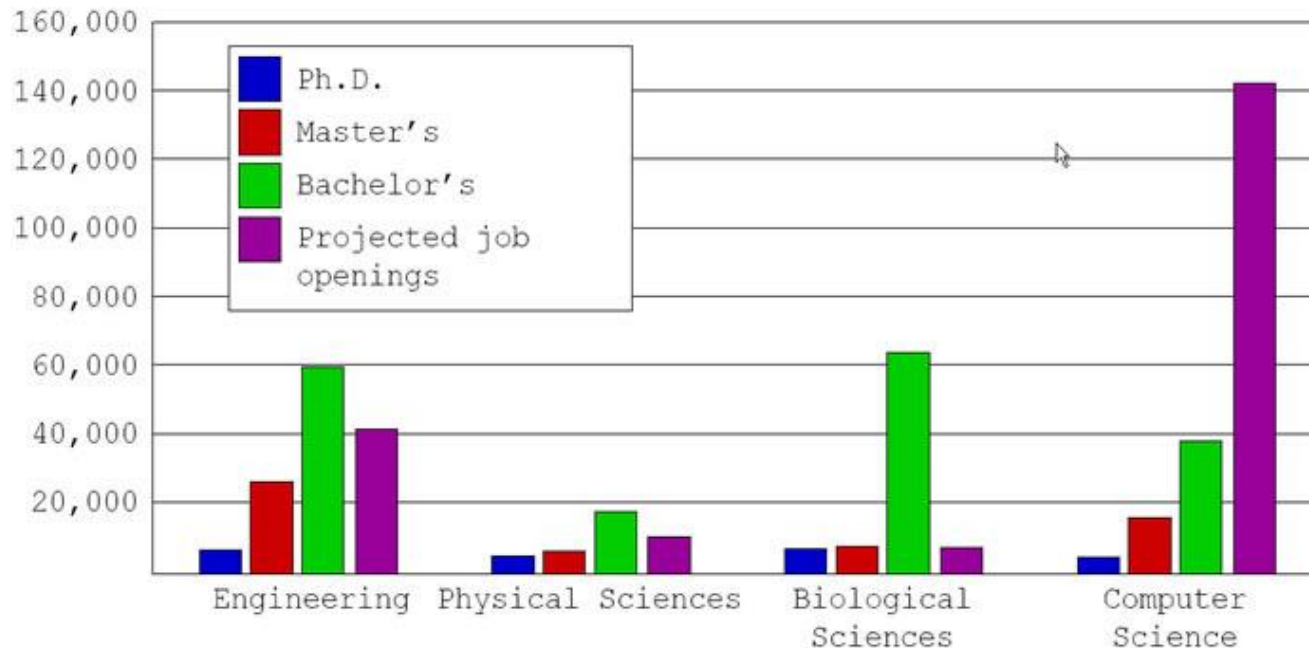
Source: Georgetown University Center on Education and the Workforce forecast of occupational growth, 2018.

Percentage Of New STEM Jobs By Area Through 2018



Data Source: US-BLS Employment Projections, 2008-2018 (http://www.bls.gov/emp/ep_table_102.pdf).

Degree Production vs. Job Openings



Sources: <http://cs.stanford.edu/~eroberts/talks/SIGCSE-2008/RediscoveringThePassion.ppt>
Adapted from a presentation by John Sargent, Senior Policy Analyst, Department of Commerce, at the CRA Computing Research Summit, February 23, 2004. Original sources listed as National Science Foundation/Division of Science Resources Statistics; degree data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey; and NSF/SRS: Survey of Earned Doctorates; and Projected Annual Average Job Openings derived from Department of Commerce (Office of Technology Policy) analysis of Bureau of Labor Statistics 2002-2012 projections. See <http://www.cra.org/govaffairs/content.php?cid=22>.

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Focus on the Future of IT Jobs

- <http://logos.cs.uic.edu/recruit/csstatistics.htm>

- 1. **The 5 Hottest IT Jobs Right Now**
 - <http://www.networkworld.com/news/2012/072612-jobs-261179.html>
- 2. **The Best Technology Jobs of 2012**
 - <http://money.usnews.com/money/careers/slideshows/the-6-best-technology-jobs-of-2012>
- 3. **9 Sweet Tech Jobs for 2013**
 - <http://money.usnews.com/money/careers/articles/2013/02/27/9-sweet-tech-jobs-for-2013>
- 4. **The 25 Best Tech Companies To Work For In 2011**
 - <http://www.businessinsider.com/the-best-tech-companies-to-work-for-2011-9?op=1>
- 5. **Top Technology Job Trends of 2012**
 - <http://www.forbes.com/sites/reuvencohen/2012/07/31/top-technology-jobs-trends-of-2012-include-social-media-html5-jquery-hadoop-paas/>
- 6. **America's 25 Fastest-Growing Tech Companies**
 - http://www.forbes.com/2011/02/16/first-solar-neutral-tandem-riverbed-technology-illumina_slide_8.html
- 7. **Information Technology Jobs in the Music Industry**
 - http://www.ehow.com/list_6944185_information-technology-jobs-music-industry.html

More...

8. **10 Recession-Proof IT Skills**

- <http://www.networkworld.com/slideshows/2010/020810-ndc-management.html#slide1>

9. **10 Hot Computer Science Schools**

- <http://www.networkworld.com/slideshows/2010/022210-computer-science.html#slide12>

10. **List of the Largest Information Technology Companies**

- http://en.wikipedia.org/wiki/List_of_the_largest_information_technology_companies

11. **The World's Most Innovative Growth Companies**

- <http://www.forbes.com/lists/2011/most-innovative-growth-companies.html>

12. **CEO Guide to the U.S. Technology/Hiring Boom**

- <http://www.businessweek.com/technology/special-reports/ceo-guide-to-the-us-technologyhiring-boom.html>

The Academy of Information Technology is the newest career academy offered at NTHS. Information technology is a broad, ever-growing field. The majority of the future jobs will require knowledge and skill in computing technology. Tech skills are in high demand. 71% of the STEM area jobs will be in computing fields. The opportunities in computing fields are endless and include:

- The publishing industries (software, internet, and traditional)
- Graphic design, marketing, advertising, print media
- The motion picture and sound recording industries
- The broadcasting industries
- The telecommunications industries
- Internet service providers and web search portals
- Data processing industries
- Information services industries
- Network administration and computer infrastructure systems design
- System design, service and maintenance
- Cyber security and information management

The AOIT offers students the opportunity to explore and prepare for STEM related jobs through a series of technical and design courses including:

- Computer Systems
- Introduction to Computer Programming,
- Web Design and
- Computer Networking.

A highlight is the Digital Media Technology and Production course in which students benefit from hands-on experience in the high school production studio.

Academy partnerships with local colleges and businesses bring AOIT student unique experiences. Videoconferencing with the Pro Football Hall of Fame is a benefit from our partnership with the Buffalo Bills organization. AOIT students are placed in an internship in their junior year to gain exposure to their field of interest. The greatest benefit of the AOIT is the opportunity to be part of a team as the students explore and plan their future paths to personal and professional success.