Think only STEM jobs require advanced computer skills? Think again. Change the Equation research finds that roughly *twice as many Americans as we thought* write computer code, develop software, or maintain computer networks on the job. And nearly *half* of them are in non-STEM occupations.

### COMPUTING ACROSS THE ECONOMY

According to the U.S. Bureau of Labor Statistics, 3.8 million people in the U.S. work in computing occupations. Yet Change the Equation finds that more than twice as many — *7.7 million Americans* — say they use computers in complex ways in their jobs.

Out of those 7.7 million

- **3.9 million** have jobs in **STEM** fields
  - Developing software or modifying computer games
  - Programming using languages like Java, SQL, PHP, or Perl
  - Maintaining a computer network
- **3.8 million** have jobs in **non-STEM** fields
  - All perform tasks such as

### BUILDING THE FOUNDATION IN K-12

The demand for advanced computing skills is much greater than originally thought, because jobs across the workforce now require knowledge and skills once confined to people with job titles like computer programmer, software developer, or network administrator. To have a fighting chance in this new economy, young people need a strong foundation in these skills long before they finish high school.

**SOURCES:** Bureau of Labor Statistics, 2012; Change the Equation analysis of results from the 2012 Programme for the Assessment of Adult Competencies, administered by the OECD. For more information about sources and methodology, see [changetheequation.org](http://changetheequation.org).