



## Being Competitive and The Mathematical Sciences

Our Nation must adequately invest in science, mathematics and engineering in order for America to remain competitive in today's global marketplace. For this reason, we strongly support a U.S. innovation agenda that will ensure continued U.S. competitiveness.

**Mathematics is a foundational discipline upon which future progress in science, engineering, and many other areas depends.**

Any public policy initiative that seeks to strengthen this Nation's economic competitiveness, cannot afford to ignore the past, present, and future contributions made by the mathematical sciences to scientific progress. Considerable evidence supports this assertion. We attach sample success stories of a variety of discoveries that together demonstrate the ubiquitous nature of the mathematical sciences. These stories show that the mathematical sciences are enabling technologies, which provide the tools, insight, and capability needed for innovation and technological progress.

To continue making vital contributions, the mathematical sciences must receive enhanced support in order to continue to tackle important problems and to attract tomorrow's best and brightest minds into the field.

### WE ASK THAT YOU...

- Support an FY 2009 budget of at least \$6.85 billion for the National Science Foundation (NSF) and a Division of Mathematical Sciences budget of at least \$245.7 million.

The NSF is a key federal agency that supports research and education in all the science disciplines. Much of the research supported through the NSF eventually leads to technological innovations that directly benefit society. The NSF is especially important to the mathematical sciences because the agency provides nearly 70% of federal support for academic mathematical sciences research.

- Support an FY 2009 budget of at least \$4.72 billion for the Office of Science (SC) of the Department of Energy (DOE) and at least \$151.3 million for the Mathematical, Informational, and Computer Sciences Research Program.

DOE manages fundamental research programs in basic energy sciences, biological and environmental sciences, and computational science. The SC supports mathematical sciences research through its Advanced Scientific Computing Research program and its subprogram Mathematical, Informational, and Computer Sciences Research.