



The National Nanotechnology Initiative: Overview, Reauthorization, and Appropriations Issues

By Jr John F Sargent

Createspace, United States, 2012. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Nanotechnology-a term encompassing the science, engineering, and applications of submicron materials-involves the harnessing of unique physical, chemical, and biological properties of nanoscale substances in fundamentally new and useful ways. The economic and societal promise of nanotechnology has led to substantial and sustained investments by governments and companies around the world. In 2000, the United States launched the world s first national nanotechnology program. From FY2001 through FY2012, the federal government invested approximately \$15.6 billion in nanoscale science, engineering, and technology through the U.S. National Nanotechnology Initiative (NNI). President Obama has requested \$1.8 billion in NNI funding for FY2013. U.S. companies and state governments have invested billions more. As a result of this focus and these investments, the United States has, in the view of many experts, emerged as a global leader in nanotechnology. However, the competition for global leadership in nanotechnology is intensifying as countries and companies around the world increase their investments. Nanotechnology s complexity and intricacies, early stage of development (with commercial payoff possibly years away for many potential applications), and broad scope of potential applications...

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