

# Why Investment in Research, Development & Innovation Matters

## Research Development & Innovation (RDI) investment generates jobs.

For example, for every **\$1 million** invested in....

Our national research infrastructure, approximately **20.1 jobs** will be created or retained in one year. (*Information Technology and Innovation Foundation*)

Broadband infrastructure, **20 jobs** are created in the telecommunications, computer, and IT sectors with multiplier effects throughout the economy. (*Communications Workers of America*)

Direct infrastructure projects in transportation, energy, water systems and schools, roughly **18 new jobs** would be created. (*University of Massachusetts-Amherst's Political Economy Research Institute*)

Clean-energy, **16.7 jobs** would be created. For every \$1 million spent on fossil fuels, by contrast, 5.3 would be created. (*Center for American Progress*)

New public transit projects, some **31.4 jobs** are created. (*US Department of Transportation*)

The mission of the ISTC is to increase resources for RDI at Illinois-based institutions and businesses.

Nearly two-thirds of the papers cited in recent U.S. patents were published by researchers at organizations supported by federal funds.

*Source: American Association for the Advancement of Science*

## RDI: Contributing to the Economic Growth of the U.S. and Illinois

Every \$1 million in RDI spending supports 36 direct/indirect jobs. By that measure, Illinois' university-based and national lab RDI sector alone supports more than **400,000 jobs**, equivalent to 6% of Illinois' current workforce. (*the U.S. Department of Commerce/Bureau of Economic Analysis, 2005 data*)

Economists estimate that more than half of U.S. economic growth over the past five decades is due to advances in technology. (*American Association for the Advancement of Science*)

RDI accounted for 5 percent of real GDP growth between 1959 and 2004, and 7 percent between 1995 and 2004. This ramp-up in RDI's contribution helps explain the pick-up in economic growth and productivity since 1995. (*NSF*)

Information, communication and technology and biotechnology-related industries account for two-thirds of the business sector's RDI contribution to GDP growth between 1995 and 2004. (*NSF*)

The Illinois biotech cluster includes over 1,400 establishments and 49,000 employees, and is supported by Illinois' federal labs as well as the state's top-notch research universities. (*IL Department of Commerce and Economic Opportunity*)

According to TechAmerica and the U.S. Bureau of Labor Statistics, Illinois ranks seventh in high-tech employment. Forty-two of every 1,000 private sector workers in Illinois are employed by high-tech firms. (*US Department of Commerce/Bureau of Economic Analysis*)

The Illinois Science & Technology Coalition is a 501(c)(6) membership-based organization.

**ISTCoalition.org**

