



SAN DIEGO'S RESEARCH INSTITUTIONS

San Diego's research institutions are the backbone of scientific innovation. They are the genesis of groundbreaking scientific advances that yield cures for diseases, algorithms in billions of smartphones worldwide and state of the art medical devices used for treatment and care. They are also the catalyst of scientific startups and licensed technologies that play a critical role in San Diego's globally recognized scientific research and development (R&D) ecosystem. In total, scientific R&D affects more than 100,000 local jobs and generates more than \$14.4 billion in economic impact – a third of which stems from research institutions.¹

HIGHLIGHTS

- » **Economic impact:** The \$4.6 billion economic impact of research institutions equates to that of four San Diego Convention Centers, 34 San Diego Comic-Cons, six aircraft carriers or 33 U.S. Open Golf Championships every year.²
- » **Funding + patents:** Independent research institutes in San Diego receive more NIH research funding and generate more patents than counterparts in any metro area in the U.S.²
- » **Labs > shops:** At more than 41.8 million square feet, the amount of lab and R&D space outpaces the amount of shopping space in San Diego by more than three times.²
- » **The brains:** There are 111 living National Academy of Science members and more than 2,600 postdocs within San Diego's research institutions alone.²

KEY INSTITUTIONS

- » La Jolla Institute for Allergy and Immunology
- » Ludwig Institute for Cancer Research
- » Salk Institute for Biological Studies
- » Sanford Burnham Prebys Medical Discovery Institute
- » San Diego Biomedical Research Institute
- » Scripps Institute of Oceanography
- » The California Institute for Biomedical Research
- » The J. Craig Venter Institute
- » The Sanford Consortium for Regenerative Medicine
- » The Scripps Research Institute
- » Torrey Pines Institute for Molecular Studies
- » University of California San Diego



INNOVATION



MILITARY



TOURISM



LOCAL



INTELLECT

SPOTLIGHT

UC San Diego tackles cancer

UCSD researchers are leading a nationwide clinical trial to see whether 80 rare cancers can be treated with drugs from the breakout field of immunotherapy – where patients' own immune systems get supercharged to battle tumors. Funded by the National Cancer Institute, researchers may shed light on how the human immune system reacts to deadly mutations.³

UC San Diego

RESOURCES

Biocom

Biocom is the largest regional life sciences association in the world and represents more than 825 member companies. biocom.org

Gary and Mary West Foundation

The Gary and Mary West Foundation is a nonprofit dedicated to enabling seniors to successfully age in place, with access to high-quality, affordable health and support services. To date, the Foundation has awarded more than 400 grants totaling more than \$181 million. gmwf.org

JLABS

JLABS provides life sciences entrepreneurs and companies with access to core research facilities hosting specialized capital equipment, educational programs, operational capabilities and a community of like-minded entrepreneurs. jlabs.jninnovation.com/locations/san-diego

San Diego Venture Group

SDVG is a nonprofit business association whose mission is to provide an informal atmosphere that fosters ideas on how to form, fund and build new ventures. With more than 800 affiliated members, SDVG is helping San Diego become a significant entrepreneurial and venture center. sdvg.org

BY THE NUMBERS

Employment Numbers

As of 2015, independent research institutions and university research centers together provided **18,090** jobs to the San Diego region. When accounting for direct, indirect and induced employment, the number of the region's jobs supported by research institutions grows to **37,260**.⁴ Below are the direct, indirect/induced, total employment and value added impacts for both, independent research institutions and university research centers.

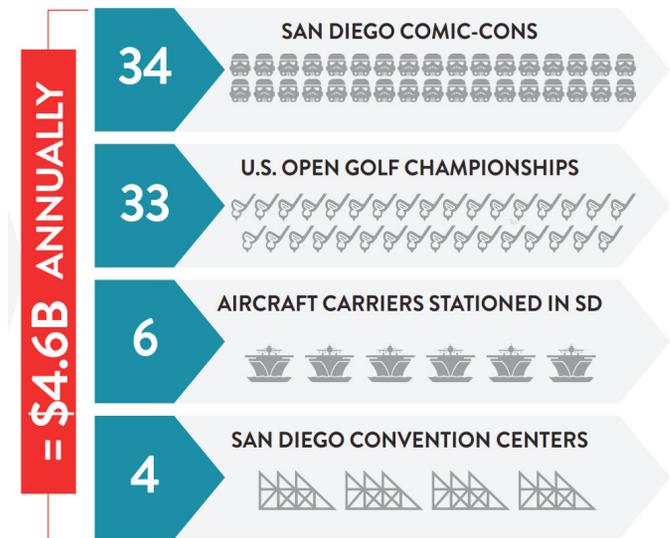
Economic Impacts of Research Institutions to the San Diego Region

Industry/Impact Type	Employment	Value Added (\$ millions)
Independent Research Institutions		
Direct	5,640	\$1,153
Indirect/Induced	7,950	\$709
Total Impact	23,670	\$2,730
University Research Centers		
Direct	12,450	\$1,742
Indirect/Induced	19,170	\$988
Total Impact	13,590	\$1,863
Research Institutions (University + Independents)		
Direct	18,090	\$2,896
Indirect/Induced	19,170	\$1,696
Total Impact	37,260	\$4,593

Our Economy

The vitality of San Diego's economy is reliant upon the growth and development of the region's research institutions.

In 2015, the region's economic research institutions had an economic impact of **\$4.6** billion, equivalent to the following:⁴



For more information on San Diego's research institutions, please contact:

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Sources: Introduction: 1. San Diego Regional EDC and BW Research Partnership, "The Economic Impact of San Diego's Research Institutions", 2015 | Highlights: 2. San Diego Regional EDC and BW Research Partnership, "The Economic Impact of San Diego's Research Institutions", 2015 | Spotlight: 3. The San Diego Union Tribune, "UCSD helps lead ambitious study of 80 rare cancers", 2017 | By the numbers: 4. San Diego Regional EDC and BW Research Partnership, "The Economic Impact of San Diego's Research Institutions", 2015