

Arizona Biosciences By the Numbers

Through Arizona's Bioscience Roadmap, the annual progress of the state's bioscience initiative is being closely gauged in areas such as job and firm creation, federal research-grant funding, and venture-capital investment. Below are popular statistical questions and answers drawing from the latest data in Battelle's annual metrics update.

How many Arizonans work in the biosciences?

Including hospitals, which are part of Arizona's bioscience definition, **90,219** individuals worked in the biosciences in 2009, the most recent year for which full data is available. With hospitals excluded, the number was **14,598** working in drugs and pharmaceuticals; research and testing; medical devices and equipment; and agricultural feedstock and chemicals.

What do they earn?

In 2009 in Arizona, compared to the total private-sector average of **\$42,090** in annual wages, Arizona bioscience jobs averaged **\$57,360**, up **3.0%** for the year—compared to a 0.4% rise for the total private sector. Excluding hospitals, wages for bioscience jobs were still higher—**\$57,679**.

How many bioscience companies does Arizona have?

813.

How fast is Arizona's bioscience sector growing?

From 2002 to 2009, Arizona's population and overall employment rose quickly, but not nearly as fast as biosciences jobs, up **32%**, compared to **11%** for the nation as a whole. Bio firms increased **28%** during the same period, compared to **20%** for the nation.

Where does Arizona rank in getting NIH grants?

Arizona received **\$222.9 million** in NIH grants in 2010. This total represents a **65%** increase since 2002, when Arizona's Bioscience Roadmap was launched. The state's goal is to match or exceed the growth rate of the nation's top-10 states. Between 2002 and 2010, Arizona outpaced the top-10 states by **30%**.

How about venture capital?

In 2008, Arizona bioscience firms attracted **\$65 million** in venture-capital funding. However, by 2010, that amount plunged to **\$18 million** as the venture-capital industry contracted sharply in the global recession. Although important initiatives have been launched to draw additional funds to Arizona, the state continues to receive less than **0.5%** of the nation's venture capital pool.

How much has Arizona invested in the biosciences?

In the 2002 Roadmap report, Battelle recommended that **\$1.4 billion** would be needed in private and public investments over 10 years to fully implement the Roadmap plan. Though no precise figure exists, Battelle estimates that **60%-70%** of this total has been achieved.

Source: Battelle. All data current as of year-end 2009, except for NIH grants and venture capital, current as of year-end 2010.

For More Information:

Flinn Foundation: www.flinn.org
BioBasics: www.arizonabiobasics.com
Biozona: www.biozona.org

Arizona's Bioscience Roadmap: www.flinn.org/bio-roadmap
Bio Research blog: www.flinn.org/bio-briefs/topic/Research
Bio Education blog: www.flinn.org/bio-briefs/topic/Education