



MADISON REGION  
ECONOMIC PARTNERSHIP

LIFE SCIENCES

# THE MADISON REGION: A GLOBAL LEADER IN THE LIFE SCIENCES



**With a long history of pioneering discoveries in biotechnology, the Madison Region is a breeding ground for ingenuity that has transformed the life sciences industry.**

From the discovery of vitamins in the early 1900s to the first human embryonic stem cells grown in a laboratory, the region is an established leader in outstanding biotech research and development with strengths in medical device, pharmaceutical development, and clinical testing. From our base in R&D stems a deep concentration of major life science firms—both mature and startup—that have chosen to build headquarters in the Madison Region.

## LEARN MORE

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*The Madison Region consists of Columbia, Dane, Dodge, Green, Iowa, Jefferson, Rock, and Sauk counties.*



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## A CONCENTRATION OF JOBS AND COMPANIES

Proving that strength in the life sciences is not reserved for the coasts, the Madison Region's employment in scientific R&D services grew over 190% between 2005 and 2015, far outpacing national growth of 14%. According to Economic Modeling Specialists International, the bioscience industry directly supported 10,000+ regional jobs in 2015.

Regional sector employment is balanced between large, nationally known companies such as Promega, Covance, Thermo Fisher Scientific, Exact Sciences, and GE Healthcare, and smaller companies such as Stemina, Lucigen, and Quintessence Biosciences. Companies like SHINE Medical Technologies and Northstar Medical Radioisotopes have successfully transferred products from research to market, choosing to remain in the region to build manufacturing facilities and create related jobs.

**10,000+**

REGIONAL EMPLOYMENT

**2,300+**

STATE CLINICAL TRIALS

**\$3.11B**

STATE BIOTECH EXPORTS

### MADISON: A RECOGNIZED BIOSCIENCE HUB

The 2014 Batelle/BIO report on state bioscience jobs, investments, and innovation put Madison at the top of the list among metro areas nationwide when it comes to the strength of its bioscience sector.

The report, which breaks down the bioscience industry into five sectors, ranked the Madison metro area in the top nine for specialized employment concentration in bioscience. Madison is also one of just nine regions with significantly higher than average job concentration in four out of five bioscience sectors.

According to Batelle/BIO, Madison ranked 4<sup>th</sup> in job creation in the drug and pharmaceuticals sector, employing nearly 2,000 in 2012. It also ranked 8<sup>th</sup> in nationwide job concentration in medical devices, a sector that also employs about 2,000 in the metro area.

### SUPPORTING INSTITUTIONS

The Madison Region fosters life science entrepreneurs through its many incubation and research spaces, such as the University Research Park, Wisconsin Institute for Discovery, and Morgridge Institute for Research. Supporting institutions such as Wisconsin Alumni Research Foundation and the Clinical Trials Education Network of Wisconsin also provide resources that help bioscience researchers and companies move from the lab to the marketplace.



BioForward—the statewide advocacy organization serving as the voice of Wisconsin's bioscience industry—provides information, resources, and professional development opportunities to advance the sector and support the companies that comprise it.



## **DRIVEN BY RESOURCES AND TALENT**

The Madison Region’s life sciences sector is fueled largely by UW-Madison, which ranks 4th nationwide in federal research funds with over \$1 billion in expenditures, more than half of which is spent directly in life sciences. Higher education institutions in and adjacent to the region propagate an infusion of young talent into the life sciences industry, with more than 9,000 sector-related degree conferrals in the 2014-2015 school year, which includes UW-Madison’s Master’s degree in bioscience.



## **UNIVERSITY OF WISCONSIN SYSTEM**

The University of Wisconsin System Schools located in or adjacent to the Madison Region support the region’s strong history and exceptional strength in the life sciences industry. In 2014-2015, these system schools granted a combined total of 4,700+ life science related degrees, with the flagship UW-Madison campus leading the way with over 3,300 related conferrals.

## **TECHNICAL COLLEGES IN THE MADISON REGION**

Degrees and certificates in bioinformatics, biotechnology, horticulture, and stem cell technologies are among programs offered at regional technical colleges, while information technology, manufacturing, and laboratory technician programs offer supporting and supplementary education for this sector’s workforce.

## **2014-2015 DEGREES CONFERRED: LIFE SCIENCES**

<b>Institution</b>	<b>Certificate</b>	<b>Associate</b>	<b>Bachelor</b>	<b>Master</b>	<b>Doctor</b>	<b>Total</b>
UW-Madison			1,956	539	814	3,309
UW-Milwaukee			796	176	95	1,067
UW-Platteville			150	2		152
UW-Whitewater			224	13		237
Beloit College			73			73
Blackhawk Technical College	229	94				323
Edgewood College			151	56	4	211
Herzing University – Madison	317	254	143	32		746
Madison College	1,560	473				2,033
Moraine Park Technical College	215	214				429
Southwest Wisconsin Technical	336	101				437
<b>Total</b>	<b>2,657</b>	<b>1,136</b>	<b>3,493</b>	<b>818</b>	<b>913</b>	<b>9,017</b>

*Source: National Center for Education Statistics via College Navigator. Note: Includes programs and award levels that are offered as a distance education program. Degree programs in life sciences include biological and biomedical sciences; natural resources and conservation; physical sciences; biomedical/medical engineering; chemical engineering; mathematics and statistics; computer information sciences and support services; and health professions and related programs.*