

BIOSCIENCE

CLUSTER PROFILE | FORT COLLINS, CO

The Bioscience Cluster is comprised of companies that research, produce, and distribute medical devices, medical instruments, pharmaceuticals, and biofuels. The cluster is rapidly becoming one of the driving forces behind the Fort Collins innovation-based economy with more than 50 firms, the majority of which are start-ups with less than 10 employees. With research expertise at CSU, affordable access to lab space, dedicated bioentrepreneur resources, and a backbone of well-established bioscience companies, Fort Collins is attracting the attention of the bioscience community in Colorado and beyond.



The City of Fort Collins supports the bioscience cluster primarily through its sponsorship of NoCo Bio (see next page) and Innosphere. Although Innosphere is not exclusively focused on bioscience companies, its wet laboratories and incubation services attract bioentrepreneurs. In addition, bioscience companies benefited from the City's rebates on the manufacturing use tax for qualifying equipment purchases. In 2013, the City rebated \$15,441 on \$1.5 million in equipment purchases.

In 2013, the City invested \$25,000 in the bioscience cluster initiative and an additional \$70,000 in Innosphere. These investments helped stimulate private investments in bioscience companies of \$14.5 million, which resulted in 57 new jobs in the sector. In addition, 9 companies were client companies of Innosphere in 2013. In summary, for every \$1 the City invested, others invested \$270.

2013 NEWS & ACHIEVEMENTS

- **INVIRAGEN**, an Innosphere graduate that works on vaccines, was acquired by Japan-based Takeda Pharmaceutical for up to \$215 million.
- **TOLMAR**'s generic Solareze Gel got FDA approval. In partnership with Impax Laboratories, TOLMAR will bring to market its generic version of Solareze Gel, the sales of which reached \$78 million in 2013.
- **CHD BIOSIENCE** expanded out of the Research Innovation Center and relocated its corporate headquarters in a new Fort Collins facility.
- **ST RENATUS** both launched and completed its final adult phase 3 clinical trial to test its nasal mist anesthetic.
- **CSU's** new bioengineering building opened its doors in the fall of 2013.

SPECIALTIES: MYCOBACTERIAL • ANIMAL
CANCER • MEDICAL DEVICES & THERAPEUTICS •
CARDIOVASCULAR • IMAGING & DIAGNOSTICS •
INFECTIOUS DISEASE • REGENERATIVE &
REHABILITATIVE MEDICINE

RESOURCES & ASSETS

RESEARCH

- ◆ CSU's Infectious Disease Research Center
- ◆ CSU's Animal Cancer Center
- ◆ Rocky Mountain Magnetic Resonance
- ◆ Rocky Mountain Regional Biocontainment Laboratory
- ◆ CDC's Division of Vector-Borne Diseases
- ◆ Medical Center of the Rockies' Research and Education Foundation

INCUBATION & COMMERCIALIZATION

- ◆ CSU's Research Innovation Center
- ◆ CSU Ventures
- ◆ NoCo Bio
- ◆ Innosphere

FUNDING & TECHNICAL ASSISTANCE

- ◆ NoCo Capital / Angels
- ◆ Bioscience Discovery Evaluation Grant Program
- ◆ Colorado Institute for Drug, Device and Diagnostic Development (CID4)

TOP 5 EMPLOYERS (BY NUMBER OF EMPLOYEES)



Source: OCEW

BY THE NUMBERS

AS OF DECEMBER 31, 2013:

OF FIRMS



57

EMPLOYMENT



1,089

EMPLOYMENT
CHANGE 2012-13



+118

EARNINGS PER
WORKER



\$78,682

NON-CITY \$ TO
CITY \$ INVESTED



\$270

Source: QCEW, City of Fort Collins

INNOVATION

2013 SBIR AWARDS: \$569,818

VENTRIA BIOSCIENCE received a phase I SBIR grant to test the feasibility of producing a novel protein that could be used to treat ulcerative colitis. They also received another phase I grant to test a low-cost alternative to insulin in diabetes treatment.

THIN AIR NITROGEN SOLUTIONS received a phase I SBIR grant to evaluate the use of cyanobacterial nitrogen bio-fertilizer in agriculture.

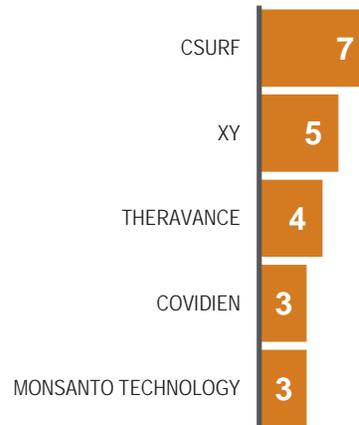
Note: SBIR awards refers to the Federal Government's Small Business Innovation Research program.

Source: SBIR.gov

PATENTS AWARDED 2013



Top Patent Producers



Note: Patent Producers are identified based on the assignee name.

Source: US Patent Office

BUSINESS FORMATION & EXPANSION

2013 INCUBATION & ACCELERATION

| | |
|------------------------|----------------|
| Companies | 9 |
| Employees | 57 |
| Venture Capital Raised | \$14.5 million |
| City Investment | \$44,091 |

Note: City investment is the share of the overall contribution to Innosphere dedicated to bioscience companies and the contribution specifically to the bioscience initiative

Source: Rocky Mountain Innosphere, City of Fort Collins.

EXPANSION & RELOCATION:

| | |
|--------------------|---------------|
| Companies | 2 |
| New Jobs | n/a |
| Capital Investment | \$1.5 million |
| City Investment | \$15,441 |

Source: City of Fort Collins



The Northern Colorado Bioscience Cluster began as a membership organization designed to support growth in the bioscience industry in Fort Collins.

In 2013, the organization was re-launched with a focus on supporting bioentrepreneurs in their quest to move their innovations from idea to product. By bringing together the region's bioscience community, NoCo Bio helps strengthen the innovation pipeline, attract capital, and empower bioentrepreneurs to take the next step. It is a partnership of Colorado State University, the University of Colorado Health System, the Rocky Mountain Innosphere, the Research Innovation Center, and the City of Fort Collins.

