**LEADING DISCOVERY:**

**URC’s Contribution to the Life, Medical & Health Sciences (LMHS)**

Report documents the URC’s contributions to this important sector and measures their collective activities and outcomes today, and looks to the future impact these universities will have.

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**DISCOVERY**

The URC is one of the few places in the nation with the capability & capacity to contribute to the next great scientific discovery that will change human health for the better.

**TALENT**

From 2011-2015 URC prepared...

- **5,254 NURSES** (all levels)
- **559 DENTISTS**
- **820 PHARMACISTS**
- **1,049 PSYCHOLOGISTS & THERAPISTS** (masters and up)
- **4,379 DOCTORS** (all types)
- **529 VETS**

The URC ranks 1st among its peer clusters in LMHS degrees awarded.

**ACCOUNTING FOR 95% of all LMHS R&D in the state**

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**THE ECONOMY**

IN 2015

1 in 8 Michigan jobs were in the LMHS sector

**SINCE 2000, LMHS SECTOR EMPLOYMENT GREW 18.9%** while overall employment is down 9.3%

**42%** of the state’s PRACTICING PHYSICIANS attended a URC medical school

**URC institutions have more than 3 MILLION patient care visits each year** including everything from annual checkups TO ER VISITS & SPECIALIZED CARE

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**MEDICAL CARE**

The URC ranks 1st among its peer clusters in LMHS degrees awarded.

**ACCOUNTING FOR 40% of all URC startup and $142 million in royalties, over 80% of all royalty income earned.**

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**RESEARCH**

The URC institutions conducted $1.2 BILLION in academic R&D in the LMHS sector in 2015

**ACCOUNTING FOR 95% of all LMHS R&D in the state**

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**TECHNOLOGY COMMERCIALIZATION**

From 2012-2016 URC Launched 32 NEW LMHS startup companies

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URCMICH.ORG

URC institutions have more than...
Since 2008, Michigan’s University Research Corridor (URC) – an alliance between Michigan State University, the University of Michigan and Wayne State University – has commissioned a series of reports examining its contributions toward key sectors of Michigan’s economy, including entrepreneurship. Key findings include:

**SECTOR REPORTS**

**ALUMNI ENTREPRENEURSHIP**

**’13**
- A 2013 survey of URC alumni found **19.1%** of respondents had founded or co-founded a business.
- **Nearly half** of the businesses started by URC alumni entrepreneurs began in Michigan.
- URC alumni-started firms were nearly **1.5 times more likely** to stay in business versus the national average.
- URC alumni entrepreneurs started or acquired businesses at **double the national average** rate among college graduates between 1996 and 2012, and many of these companies were in fields outside their major area of study.
- URC alumni entrepreneurs have started businesses in **every state** and over 100 countries.

**INFORMATION AND COMMUNICATION TECHNOLOGY**

**’11**
- The URC universities spent nearly **$74 million** on research projects with a strong IT focus in FY 2010.
- Nearly **40%** of the approximately 150 URC-assisted start-ups between 2001 to 2011 had an ICT component.
- Information technology employs about **3.5% of the state’s workforce (135,000 workers)** - a significant stand-alone sector and the underpinning for much of the major industry activity and growth represented in previous sector reports.

**LIFE SCIENCES**

**’09**
- In 2008, URC universities spent **$887 million** on life sciences research and development.
- R&D expenditures **grew 69%** since the founding of the Life Sciences Corridor in 1999.
- Michigan’s life sciences industry employed **more than 79,000 workers** (2.1% of all employment in 2006).
- From 1999 to 2006, life sciences employment **grew 10.7%** while manufacturing employment dropped 24%.
- Life sciences wages averaged $83,494 in 2006.

**‘16**
- The URC’s Detroit economic impact is **$958 million** (FY 2014).
- The URC accounts for **one in 20 jobs** in Detroit.
- The URC is engaged in more than **340 programs**, projects, activities and events in Detroit focused on community building, economic revitalization, public education, and public health.

**‘14**
- From 2009-2013, URC universities received 2,100 awards totaling nearly $300 million and supporting **341 researchers** from dozens of departments for water-related research and outreach.
- Each year, URC universities produce more than **3,400 graduates** prepared to analyze and find solutions to water-related issues in academia, government and the private sector.
- **One in five Michigan jobs** (718,700) is associated with water-enabled or water-related industries.

**‘12**
- The URC universities confer more than **3,600 degrees annually** in auto-ready disciplines, supplying the industry with talent.
- Between FY 2007 and 2011, the URC universities spent $300 million ($60 million annually) on **more than 1,400 auto projects**.
  - Over 28% of the research was funded by private industry – nine times the average share of industry funding for all university R&D at these institutions.
- URC researchers have helped automakers **improve vehicle quality, safety, engine efficiency** and performance, and reduce fossil fuel use.

**‘10**
- URC universities spent **$101 million** on advanced manufacturing R&D in 2009.
- URC universities are educating more than **14,000 students** in engineering.
- In 2007, Michigan’s advanced manufacturing industry employs **381,351 workers**, 10.3% of all employment. One-third of the Midwest’s advanced manufacturing jobs are in Michigan, paying an average wage of $64,122.

**‘08**
- Michigan has a **comparative advantage** in biomass and wind compared to the energy potential in the other 49 states.
- URC universities spent more than **$79.5 million** on R&D related to alternative energy in 2007.
- **More than 50%** of all alternative energy R&D supported the auto industry.