



# PURE LIFE SCIENCE

The life science industry is an important part of the Michigan economy. Even during the latest economic downturn, the industry increased employment by 10.7%. As of 2017, the state's life science industry employed more than 90,000 people at nearly 2,500 establishments.

## EDUCATION AND WORKFORCE

- In 2016, nearly 5,000 people across the state completed a degree in biological and biomedical sciences at a Michigan college or university.<sup>1</sup>
- University of Michigan and Michigan State University had the 11th and 12th most U.S. graduates, respectively, with biological and biomedical sciences degrees.<sup>2</sup>
- Michigan is home to 275 medical device firms<sup>3</sup> and ranks in the top 10<sup>4</sup> for the number of medical device manufacturing companies in the U.S. More than 11,000 people<sup>5</sup> make up Michigan's medical device manufacturing workforce.
- Michigan's 2,500 life science companies are supported by a workforce of over 90,000 people.<sup>6</sup>

## R&D ECOSYSTEM

- Michigan has an outstanding and diverse set of universities and colleges, being home to five medical schools that rank in the top 150 nationally,<sup>7</sup> and two that rank in the top 25 of total R&D expenditures.<sup>8</sup>
- The University Research Corridor, an alliance of Michigan State University, University of Michigan, and Wayne State University, retained its second place standing for the fourth straight year in the

"Innovation Power Ranking" among the nation's most respected innovation clusters.<sup>9</sup>

- University of Michigan received the third-most funding from the National Institute of Health in 2017, with \$521,788,658 going toward 1,155 awards.<sup>10</sup>
- The University of Michigan is ranked No. 1 in R&D expenditures for all public institutions at \$1.4 billion.<sup>11</sup>

## PURE BUSINESS

- An unrivaled statewide network of SmartZones provides business acceleration services. This includes the Michigan Life Science and Innovation Center, which offers wet-lab incubator services, benefiting Michigan's life science companies.
- In Michigan there are 141 venture-backed start-ups, a 70 percent increase in the last five years.<sup>12</sup>
- 54 companies in Michigan received more than \$222 million in venture capital funding in 2016, 25 of which were in the life science and health care industries.<sup>13</sup>

To find out how your life science business can become part of Michigan's success story, visit [www.michiganbusiness.org](http://www.michiganbusiness.org).

<sup>1</sup> EMSI (CIP code 26)

<sup>2</sup> Ibid

<sup>3</sup> EMSI (Group Medical Device)

<sup>4</sup> [https://www.trade.gov/topmarkets/pdf/Medical\\_Devices\\_Executive\\_Summary.pdf](https://www.trade.gov/topmarkets/pdf/Medical_Devices_Executive_Summary.pdf)

<sup>5</sup> EMSI (Group Medical Device Manufacturing)

<sup>6</sup> EMSI (Group Life Sciences as defined by the University Research Group)

<sup>7</sup> <http://medical-schools.startclass.com/d/a/Michigan>

<sup>8</sup> [https://ncesdata.nsf.gov/herd/2016/html/HERD2016\\_DST\\_36.html](https://ncesdata.nsf.gov/herd/2016/html/HERD2016_DST_36.html)

<sup>9</sup> <http://urcmich.org/reports/10th-annual-economic-impact>

<sup>10</sup> Ibid

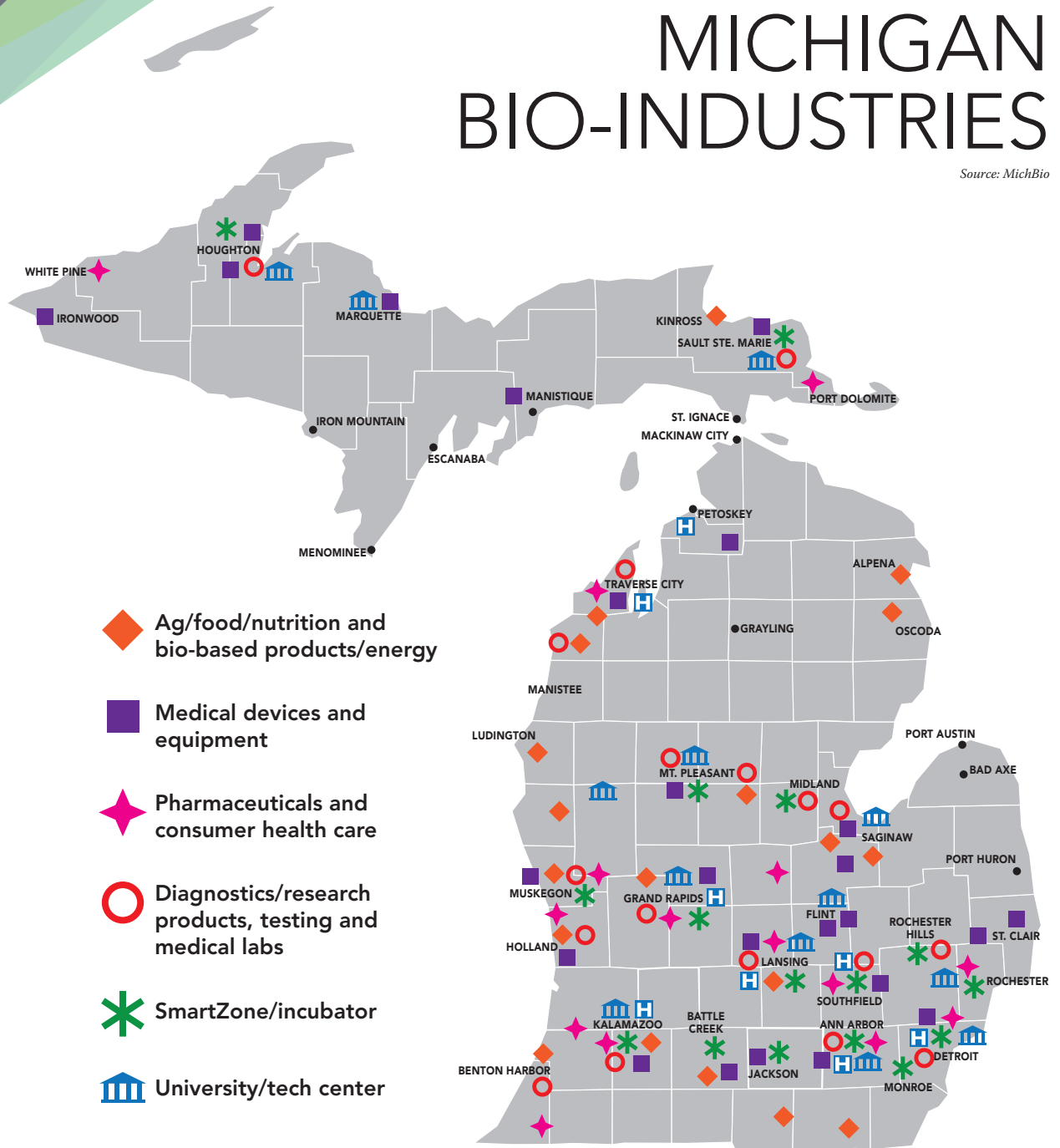
<sup>11</sup> [https://ncesdata.nsf.gov/herd/2016/html/HERD2016\\_DST\\_36.html](https://ncesdata.nsf.gov/herd/2016/html/HERD2016_DST_36.html)

<sup>12</sup> <http://michiganvca.org/research/research-report/>

<sup>13</sup> Ibid

# MICHIGAN BIO-INDUSTRIES

Source: MichBio



Dedicated to shared economic success, the MEDC promotes the state's assets and opportunities that support business investment and community vitality. The MEDC's business assistance programs and services connect companies with people, resources, partners, and access to capital.

**M E D C**  
 MICHIGAN ECONOMIC  
 DEVELOPMENT CORPORATION

[www.michiganbusiness.org](http://www.michiganbusiness.org)

-  Ag/food/nutrition and bio-based products/energy
-  Medical devices and equipment
-  Pharmaceuticals and consumer health care
-  Diagnostics/research products, testing and medical labs
-  SmartZone/incubator
-  University/tech center
-  Clinical trials Phase I unit