



MASSACHUSETTS
TECHNOLOGY
COLLABORATIVE

ANNUAL INDEX OF THE MASSACHUSETTS INNOVATION ECONOMY

The 2017 *Index of the Massachusetts Innovation Economy* shows that the Commonwealth is still a **top state for innovation**.

Each year MassTech analyzes 22 indicators that cover the categories of Economic Impact, Research, Technology & Business Development, Capital, and Talent, that measure the Massachusetts Innovation Economy.

KEY AREAS WHERE MASSACHUSETTS EXCELS:

- RESEARCH & DEVELOPMENT (R&D)
- TALENT & WORKFORCE
- SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)



RESEARCH & DEVELOPMENT (R&D)

In 2015, Massachusetts received \$28.7B in R&D investment, ranking 2nd Nationally.

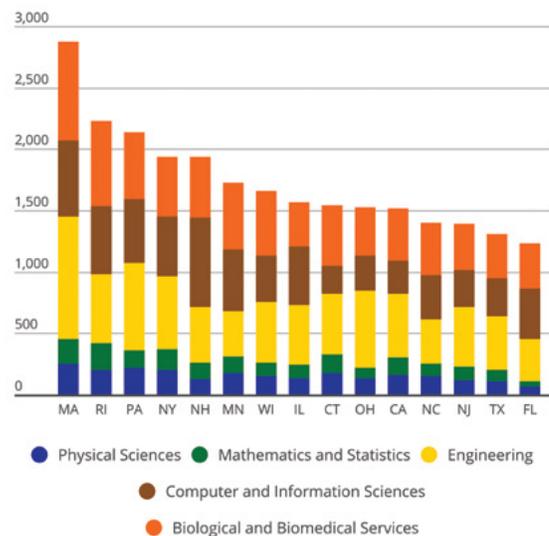
TALENT & WORKFORCE

In 2016, 47.3% of the Massachusetts workforce had at least a Bachelor's, ranking 1st nationally.

STEM LEADERSHIP

Massachusetts produced 19,500 STEM graduates in 2015 (10th nationally) and had more 'STEM graduates per capita' than any other state.

Degrees Granted in STEM Fields, All Degree Levels
per 1 Million Residents, Massachusetts & LTS, 2014-2015



THE INNOVATION INDEX: NEW INTERACTIVE WEBSITE



Visit the new interactive *Index* website to see how Massachusetts compares to 14 other Leading Technology States in 22 key indicators. The updated website will allow you to compare, sort, and download data on all 22 key economic indicators, which allows you to better analyze the year to year progress of the Massachusetts Innovation Economy.

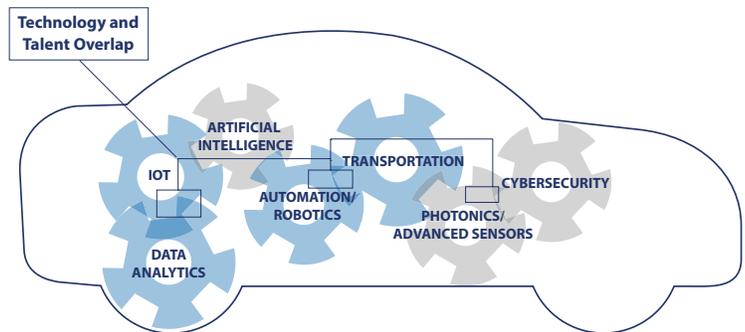
DOWNLOAD THE REPORT: MASSTECH.ORG/INDEX

INDEX SPECIAL ANALYSIS

2017 TOPIC: CONVERGENCE & THE COMMONWEALTH

How Massachusetts Can Address & Embrace the Challenges of Fast-Paced Innovation

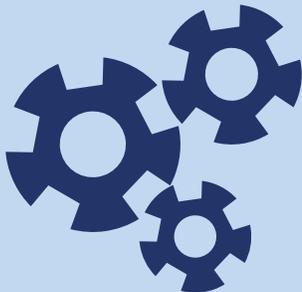
Each year the *Index* chooses a special topic for analysis. This year's *Index* focuses on "Massachusetts and Convergence," which takes a look at the increasing trend toward "interaction and overlap between different technology areas and industry sectors" both among and within firms, and how this change is and will shape the Massachusetts Innovation Economy over the years to come.



EXAMPLE INTERSECTION INDUSTRY: AUTONOMOUS VEHICLES

INDUSTRY EXPERTS: PERSPECTIVES ON CONVERGENCE

Colin Angle, CEO of iRobot, comments upon how firms can adjust to and gain from convergence as well as why Massachusetts is well positioned to benefit from it.



Dr. Joseph E. Aoun, President of Northeastern University, submits an excerpt from his new book, *Robot-Proof: Higher Education in the Age of Artificial Intelligence*, which makes the case that universities need to reform their offerings to better prepare students for a world with increasingly capable machines permeating ever more areas of the economy, including white-collar occupations formerly thought safe from automation.

Steve Vinter, Co-Founder of the Massachusetts Computing Attainment Network (MassCAN), comments upon three technologies that are driving convergence - cloud computing, data analytics, and cybersecurity - and writes about the need for K-12 education to build general skillsets in these areas among all students, not just those planning for careers as engineers or scientists.

For more on the Special Analysis visit MASSTECH.ORG/INDEX



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The Massachusetts Technology Collaborative is an innovative public agency working to enhance economic growth, accelerate technology use and adoption, and harness the value of research by engaging in meaningful collaborations across academia, industry, and government.

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