

How advanced manufacturing is helping U.S. companies compete globally.

AdvancedManufacturing.org





manufacturing ENGINEERING

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Demographics

(50%) or engineers (27%).

are large manufacturers (500+).

technologies.

Transforming the Meaning of American-Made.

Advanced manufacturing is transforming everything about the way we make things in America. The technological advances that drive manufacturing today are drastically changing the way products are developed, produced, shipped and sold.

The impact of advanced manufacturing reaches far beyond the shop floor.

With higher quality products, lower costs and streamlined operations, U.S. manufacturing is more globally competitive than ever before. Innovative technologies have galvanized the resurgence of manufacturing in the U.S. and the reshoring of overseas outsourcing.

We wanted to learn how companies are using advanced manufacturing to remain competitive.

In May of 2014, *Manufacturing Engineering* surveyed a cross-section of manufacturing executives, engineers and managers from the SME database (publication readers, trade show attendees, and members). In all, 618 U.S. manufacturers responded to our 20-question survey. On the following pages, you will find highlights of the survey findings.

Methodology

618 U.S. manufacturers participated in the online survey

Sample size 37,730

The survey was conducted from April – May 2014

The survey consisted of 20 multiple-choice, rating and differential scale questions. Survey candidates were selected from SME's professional manufacturing database, which included engineers, supervisors and executives. The database is populated primarily with Manufacturing Engineering subscribers, SME event attendees, and patrons of SME professional services.



(Multiple responses allowed)

















26%
Farm/Construction/
Mining
Equipment

Respondents also indicated

rical Equipment/
iances/Components

19% Primary Metal Products

19% Transportation Equipment15% Computer and Electronics

14% Plastics and Rubber

8% Advanced Materials8% Chemical Manufacturing

770/0 of respondents were

of respondents were
Manufacturing Executives
or Engineering
Management

Products (43%), Aerospace & Defense (42%), and Automobile/Truck (35%).

Respondents' companies serve an average of three

(3) manufacturing segments, led by Fabricated Metal

Respondents are primarily corporate management

Respondents represent a wide range of company

sizes. 51% are small companies (1-49 employees),

Respondents personally influence the purchase

of an average of four (4) Advanced Manufacturing

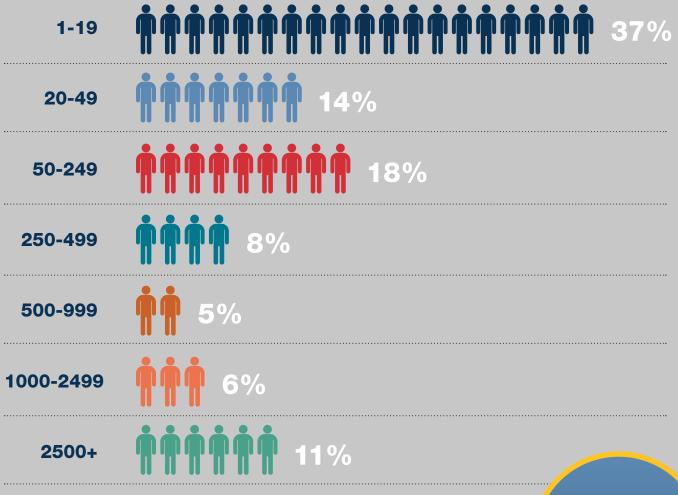
31% are medium-size companies, (50-499), and 22%

 $^{^{\}star}$ Expenditures toward Advanced Manufacturing capabilities over the next two fiscal years (2014-15)

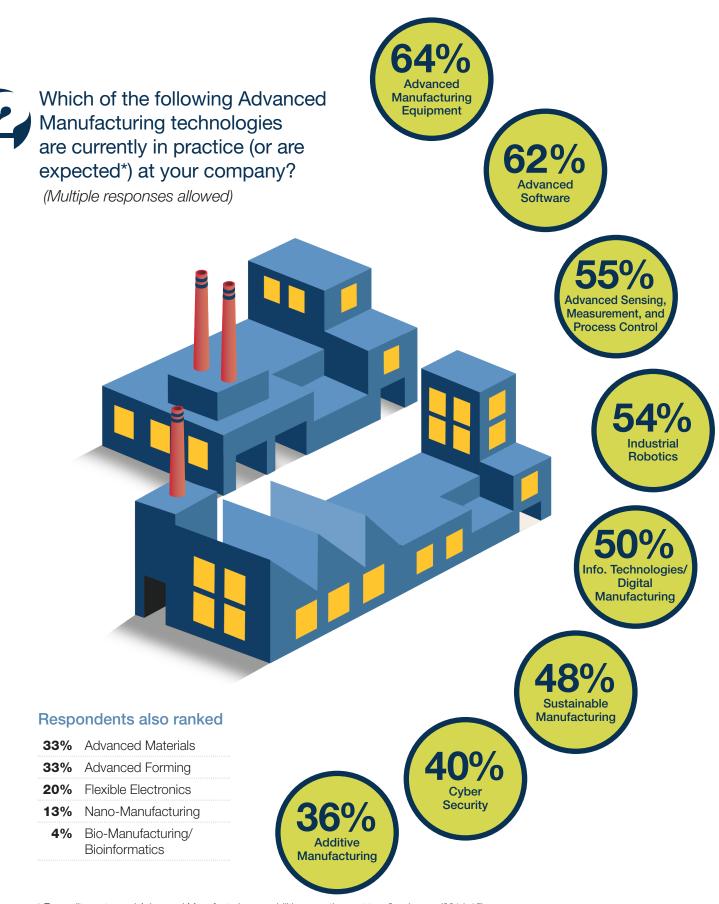




How many people are employed in your company, including all sites, offices, and locations?



Respondents represent small, medium, and large manufacturers



^{*} Expenditures toward Advanced Manufacturing capabilities over the next two fiscal years (2014-15)

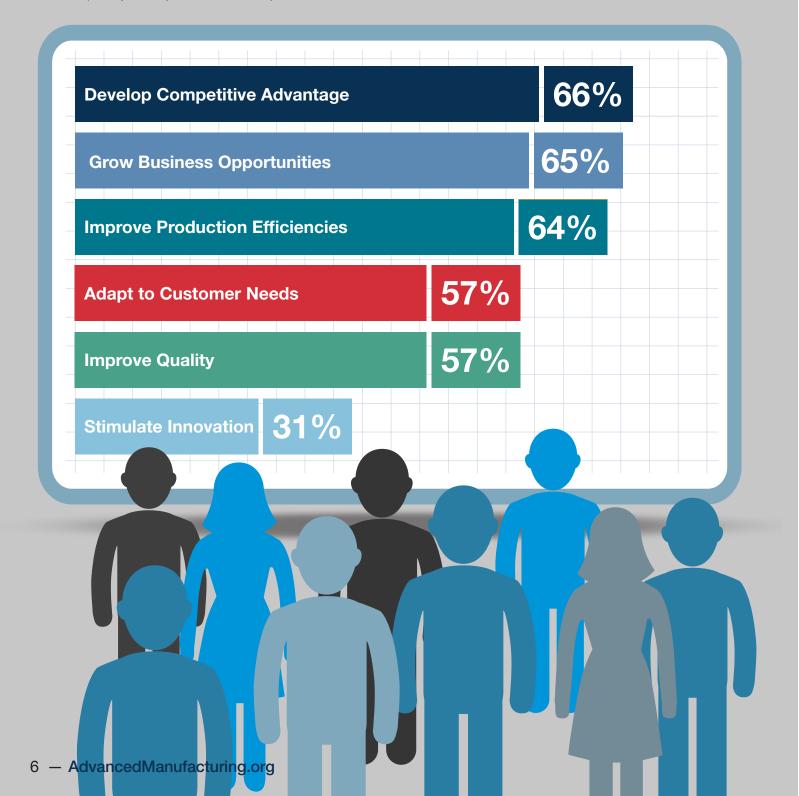
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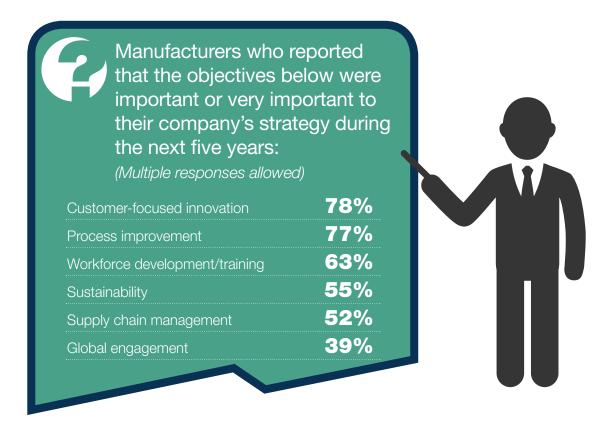




What is driving the need for your company to make Advanced Manufacturing improvements?

(Multiple responses allowed)

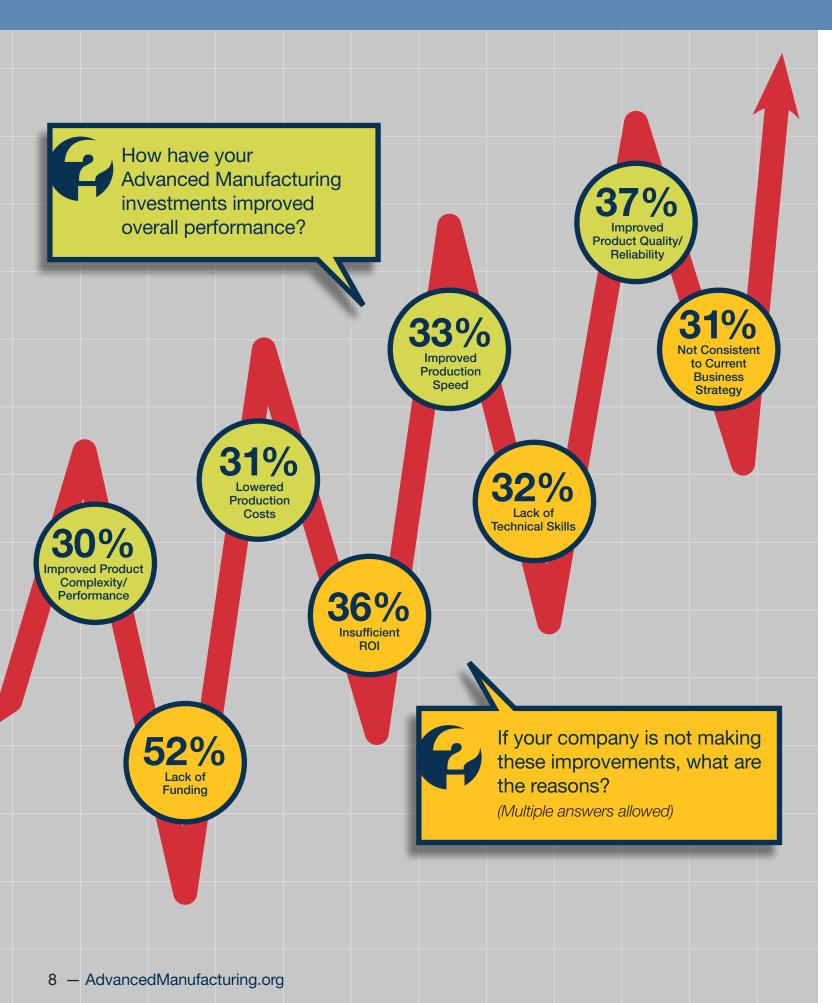




Despite respondents identifying these six strategies as keys to their success, their responses to a follow-up question show a wide gap (23%-51%) in those strategies being implemented "Exemplary" or "Significant Strengths".







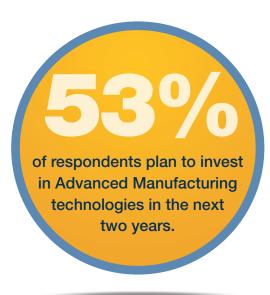


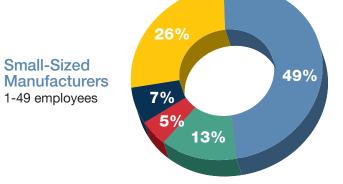
What are your company's planned expenditures toward Advanced Manufacturing capabilities during the next two years?

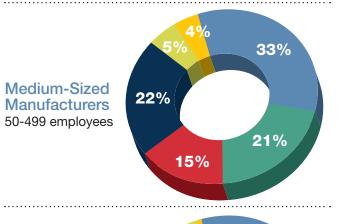


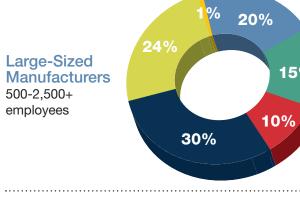
49% of small-sized manufacturers surveyed plan to spend \$100-299k toward Advanced Manufacturing.

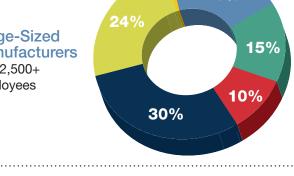
> 24% of large-sized manufacturers surveyed plan to spend \$5 million or more toward Advanced Manufacturing











- \$100,000 to \$299,999
- \$1million to \$4.9 million • \$300,000 to \$499,999 \$5 million or more
- \$500,000 to \$999,999
- None

38% of respondents said they were "not sure" of their companies' planned expeditures for the next two years and were omitted from the results provided on this page.

12% eNewsletters

10% Forums/Chat Rooms 7% Social Media/Blogs



33%

Videos

networking, training

and content.







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