

2016 BRT Education and Workforce Survey

Results and Analysis

Prepared By:
Business Roundtable

June 2017

Summary of Key Results

BRT surveyed 177 member companies on workforce talent, including the extent to which they can hire employees with specific skills for key occupations. Approximately 50% of member companies participated.

1

Talent Gaps Exist Across Industries

Only 5% of companies reported that finding the talent they need was not at least somewhat problematic.

2

Talent Gaps Exist Across Skill Categories

STEM-specific skills, general applied knowledge, and workplace skills. Critical thinking / problem-solving and teamwork data analytics and cybersecurity expertise.

3

Identifying Qualified and Diverse Applicants Remains a Challenge

Most companies struggle to hire qualified candidates with diverse racial, ethnic, and gender qualities.

4

Similar Recruitment Techniques Are Used for Most Occupations

Most members recruit from 4-year colleges and universities and community colleges. Companies also rely on employee referrals, apprentice / intern programs, and social media.

5

Firms Invest Heavily to Close Talent Gaps

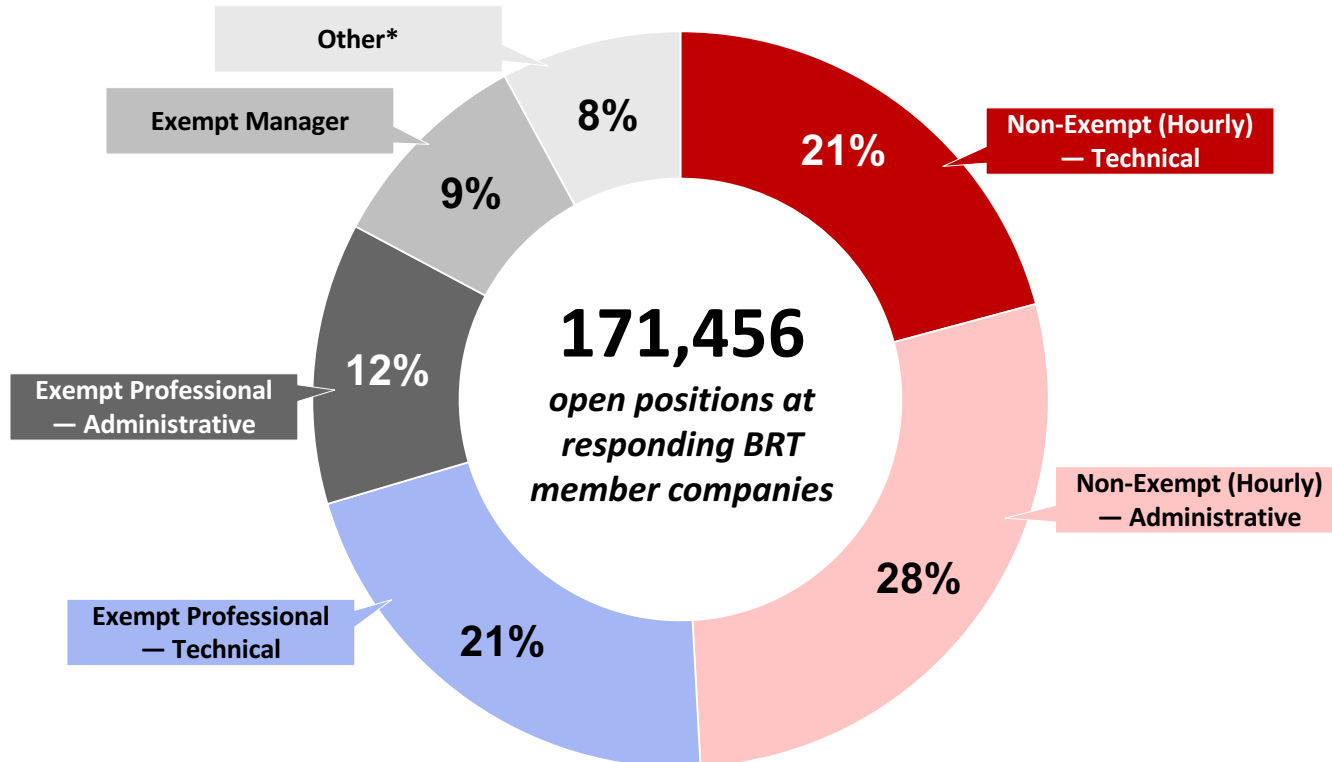
BRT respondents invest a combined \$4.5 billion per year in employee learning and development programs to mitigate talent gaps — and this investment is likely to increase in future years.

Responding member companies have more than 171,000 open positions in the United States.

Q

Please estimate the percentage of your company's U.S. job openings (as of June 2016) that belong in the categories listed below.

Percent of BRT Open Positions in the U.S.



Responses: n = 70 total responses;

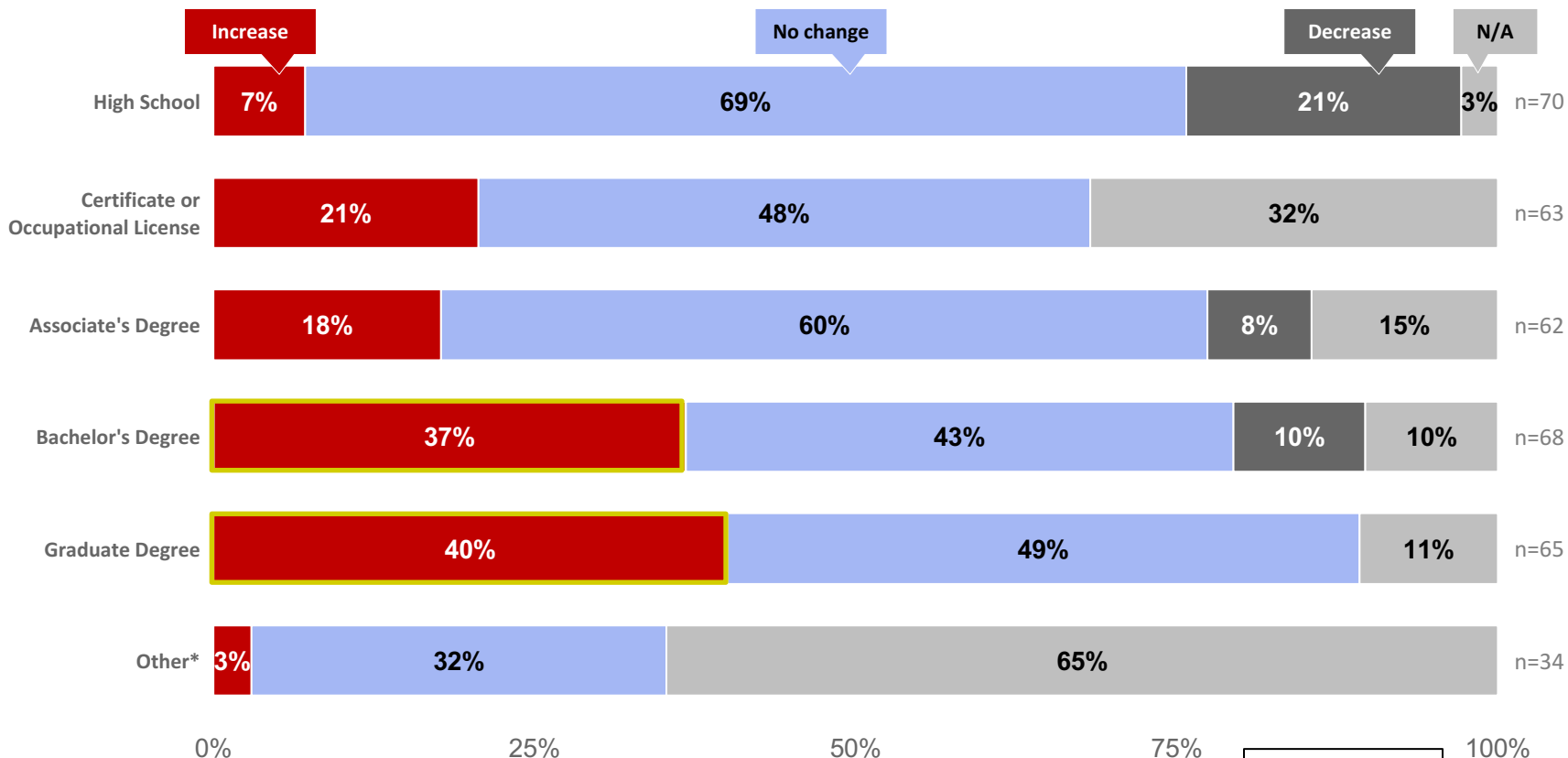
*Respondents provided a number of "other" specifications, including craft labor, interns, warehouse workers, and truck drivers.

Source: BRT 2016 Member Company Talent Survey

More than half of respondents' open positions do not require a college degree. However, firms expect educational requirements to increase in the next decade.

Q Please estimate whether you expect the percentage of your company's current job openings that require each minimum education level to increase, decrease, or stay the same over the next 10 years.

Percent of Respondents



Responses: n = 34 – 70 depending on education level

*For example, a small group of companies noted that certain positions did not require a minimum education level, or that a minimum education level was "preferred" but not mandatory

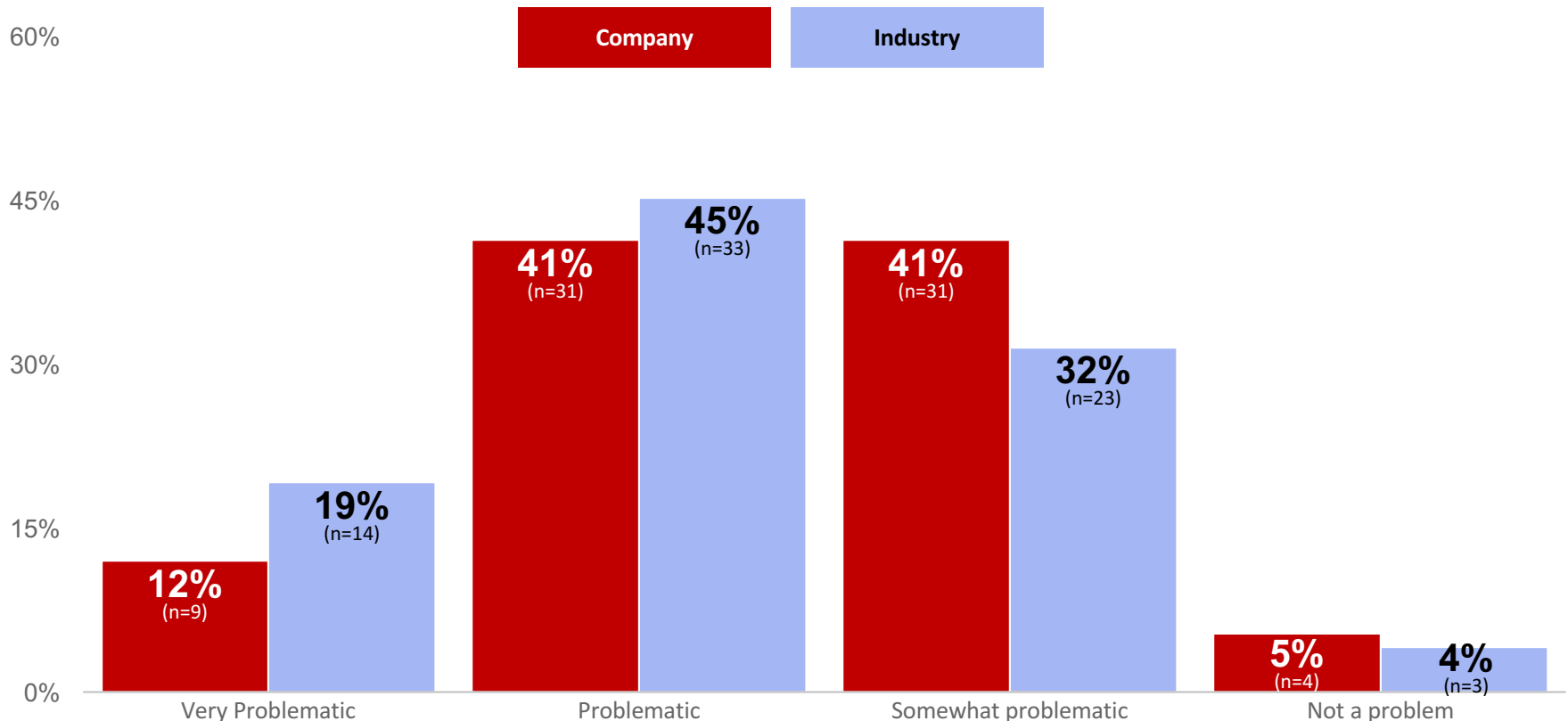
Source: BRT 2016
Member Company
Talent Survey

Over half of members believe that skills shortages are problematic or very problematic for both their company and their industry.



To what extent do you consider skills shortages to be a significant problem for your company and for your industry in the United States?

Percent of Respondents



Responses: n = 75 for company response; n = 73 for industry response

Source: BRT 2016
Member Company
Talent Survey

Fundamental math, reading, and writing skills are important, but around half of respondents have difficulty finding qualified applicants who possess these skills.

Q

For each **Basic Knowledge** skill and talent attribute, please indicate (1) its relevance to current U.S. job openings in your company; and (2) the extent to which finding qualified applicants who possess the skill is problematic.

Percent of Respondents

Very

Somewhat

Not

RELEVANT?

Reading & writing (fundamental)

82%

11%

7%

Mathematics (fundamental)

75%

21%

4%

PROBLEMATIC?

Mathematics (fundamental)

12%

47%

41%

Reading & writing (fundamental)

10%

32%

59%

0%

25%

50%

75%

100%

Responses: n = 73

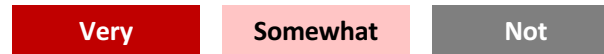
Source: BRT 2016
Member Company
Talent Survey

STEM skills are also relevant to respondents, but it is more difficult to find qualified applicants who possess them — especially cybersecurity & data science.

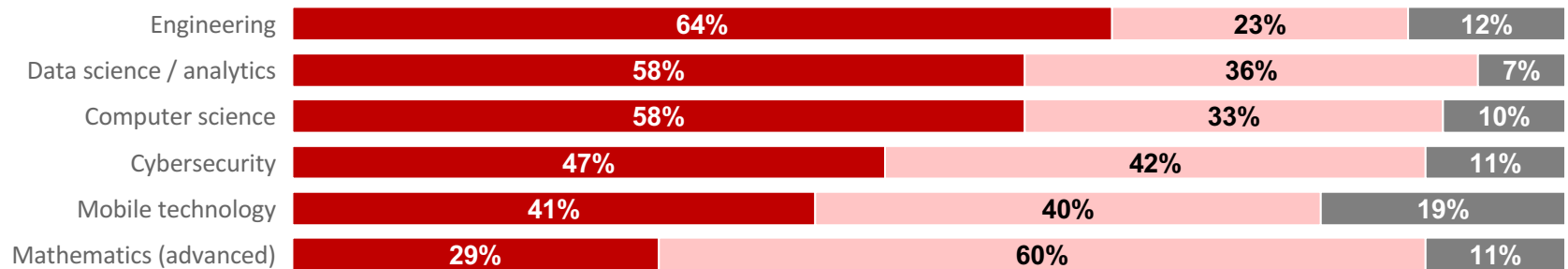


For each **Applied Knowledge (STEM)** skill and talent attribute, please indicate (1) its relevance to current U.S. job openings in your company; and (2) the extent to which finding qualified applicants who possess the skill is problematic.

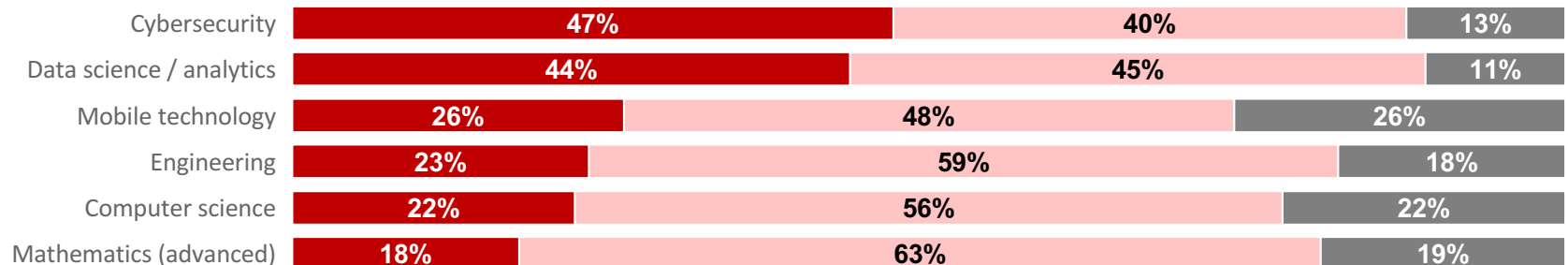
Percent of Respondents



RELEVANT?



PROBLEMATIC?



0% 25% 50% 75% 100%

Responses: n = 72 – 73, depending on skill / talent attribute

Source: BRT 2016
Member Company
Talent Survey

General applied knowledge skills are highly relevant, but qualified applicants do not always possess them — especially critical thinking & problem solving.

Q

For each **Applied Knowledge (General)** skill and talent attribute, please indicate (1) its relevance to current U.S. job openings in your company; and (2) the extent to which finding qualified applicants who possess the skill is problematic.

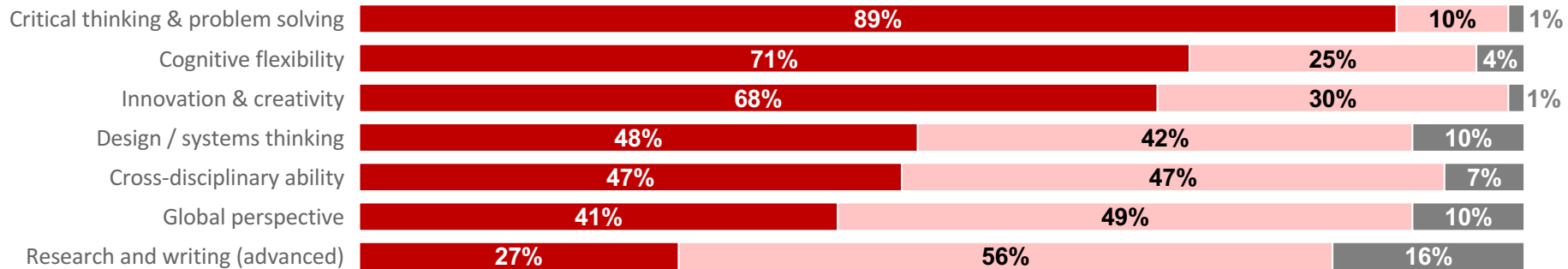
Percent of Respondents

Very

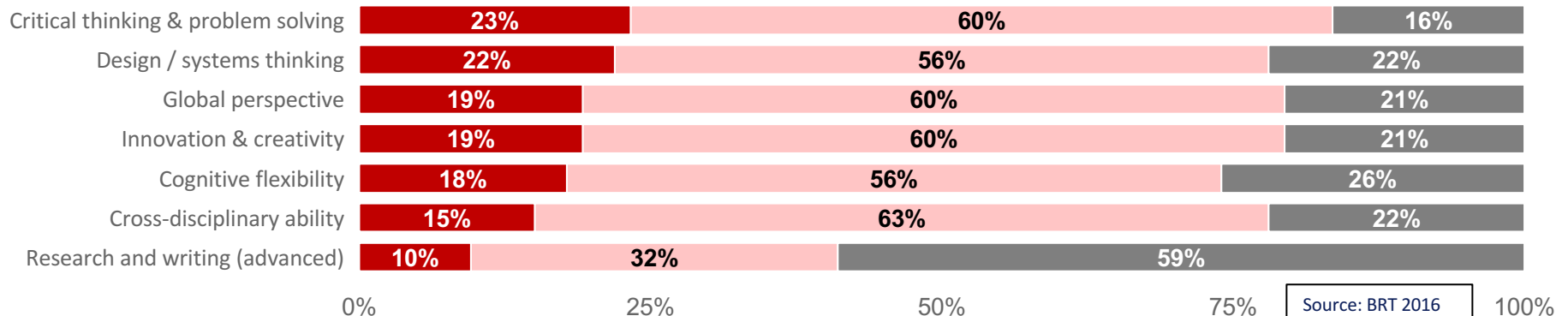
Somewhat

Not

RELEVANT?



PROBLEMATIC?



0%

25%

50%

75%

100%

Responses: n = 73

Source: BRT 2016
Member Company
Talent Survey

Workplace skills are highly relevant, particularly communication and teamwork.

Q

For each **Workplace Skill** / talent attribute, please indicate (1) its relevance to current U.S. job openings in your company; and (2) the extent to which finding qualified applicants who possess the skill is problematic.

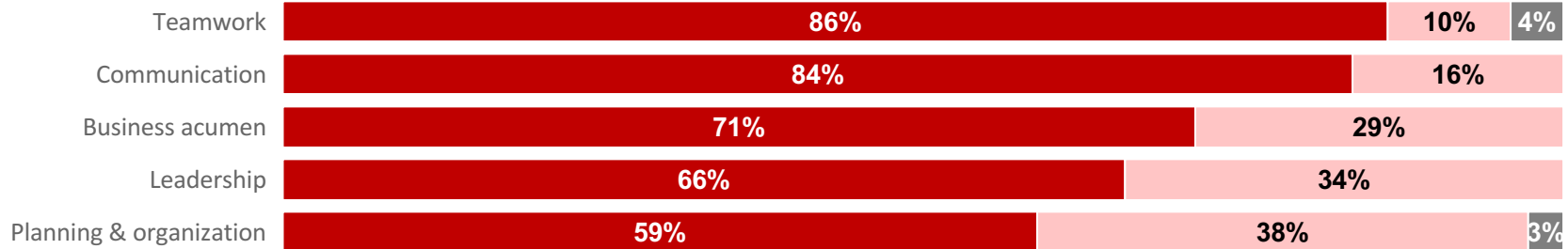
Percent of Respondents

Very

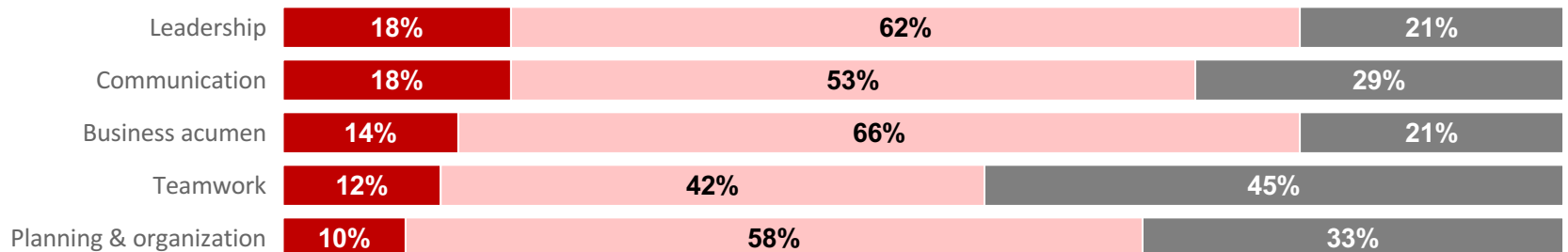
Somewhat

Not

RELEVANT?



PROBLEMATIC?



0%

25%

50%

75%

100%

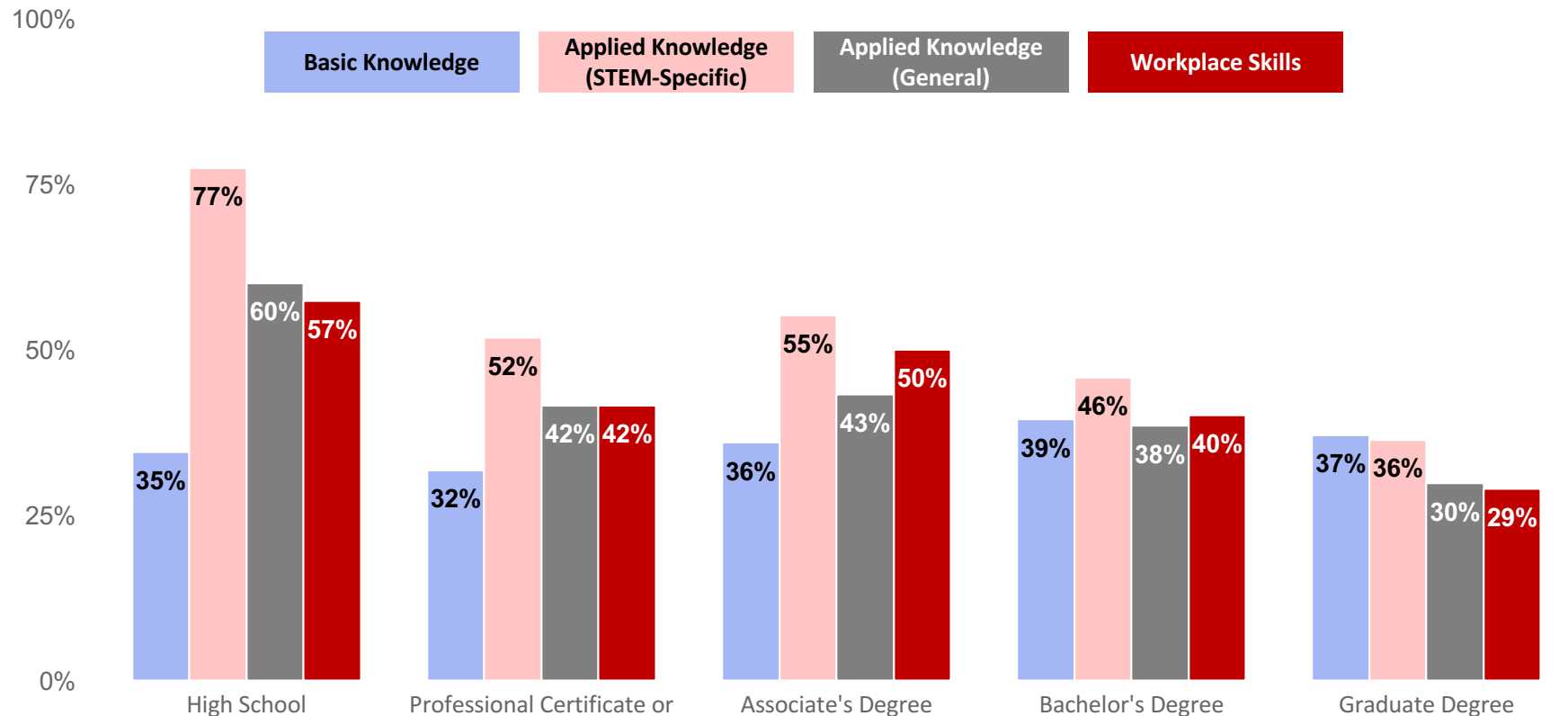
Source: BRT 2016
Member Company
Talent Survey

Even among higher-educated job candidates, one-third or more of respondents indicated that significant talent gaps exist across skill types.



How significant are skill / talent attribute shortcomings among job candidates? Please specify for each maximum level of educational attainment listed.

Percent of Respondents Indicating “Very Significant” or “Significant” Talent Shortcomings among Candidates



Responses: n = 27 – 62, depending on education level and skill / talent attribute

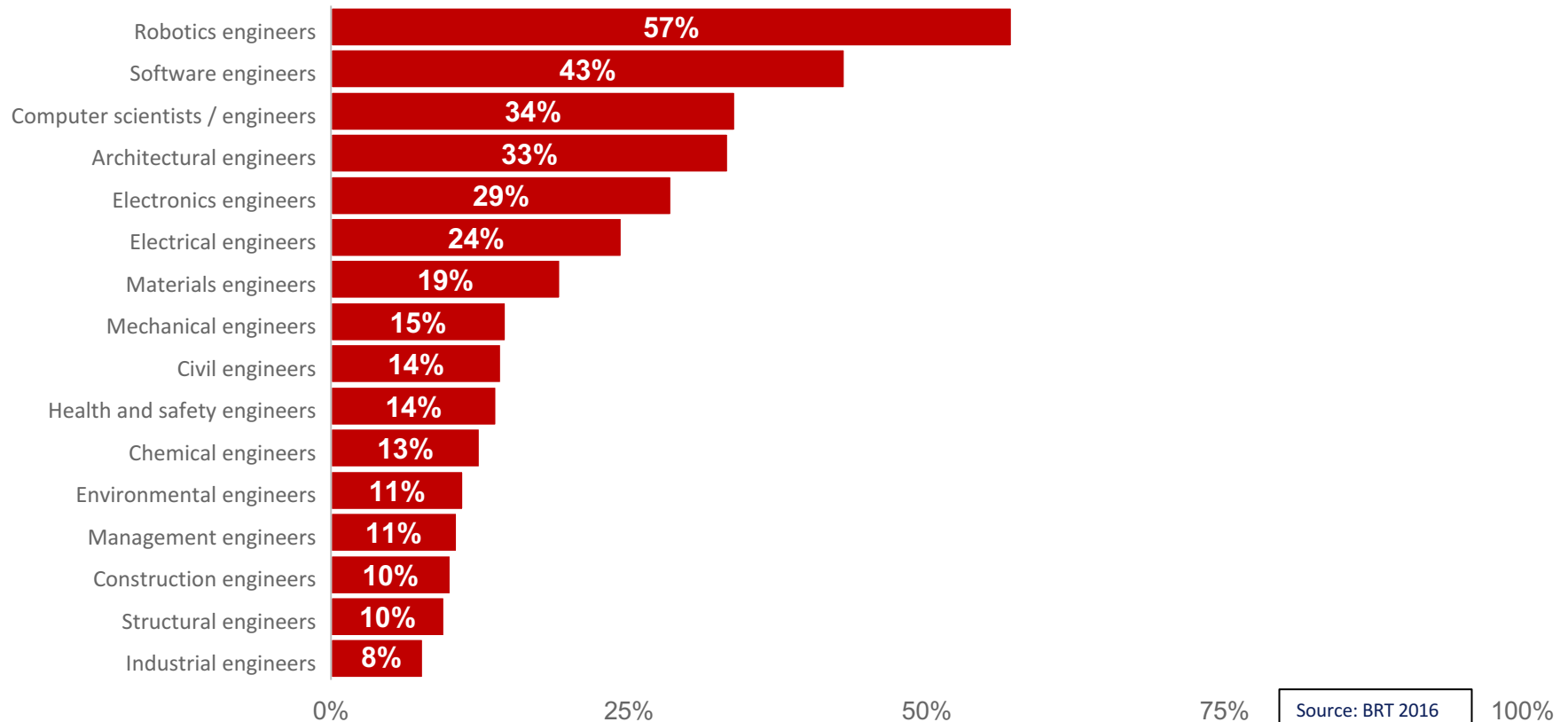
Source: BRT 2016
Member Company
Talent Survey

Robotics, software, and computer science engineers are among the most difficult positions to fill with qualified candidates.

Q

For the following engineering occupations, please indicate your agreement with the following statement: I am able to find qualified candidates for open positions.

% of Respondents Indicating “Disagree” or “Strongly Disagree” Regarding Ability to Find Qualified Candidates



Responses: n = 12 – 56 depending on engineer type

Note: this list excludes engineering occupations employed by less than 12 BRT member companies

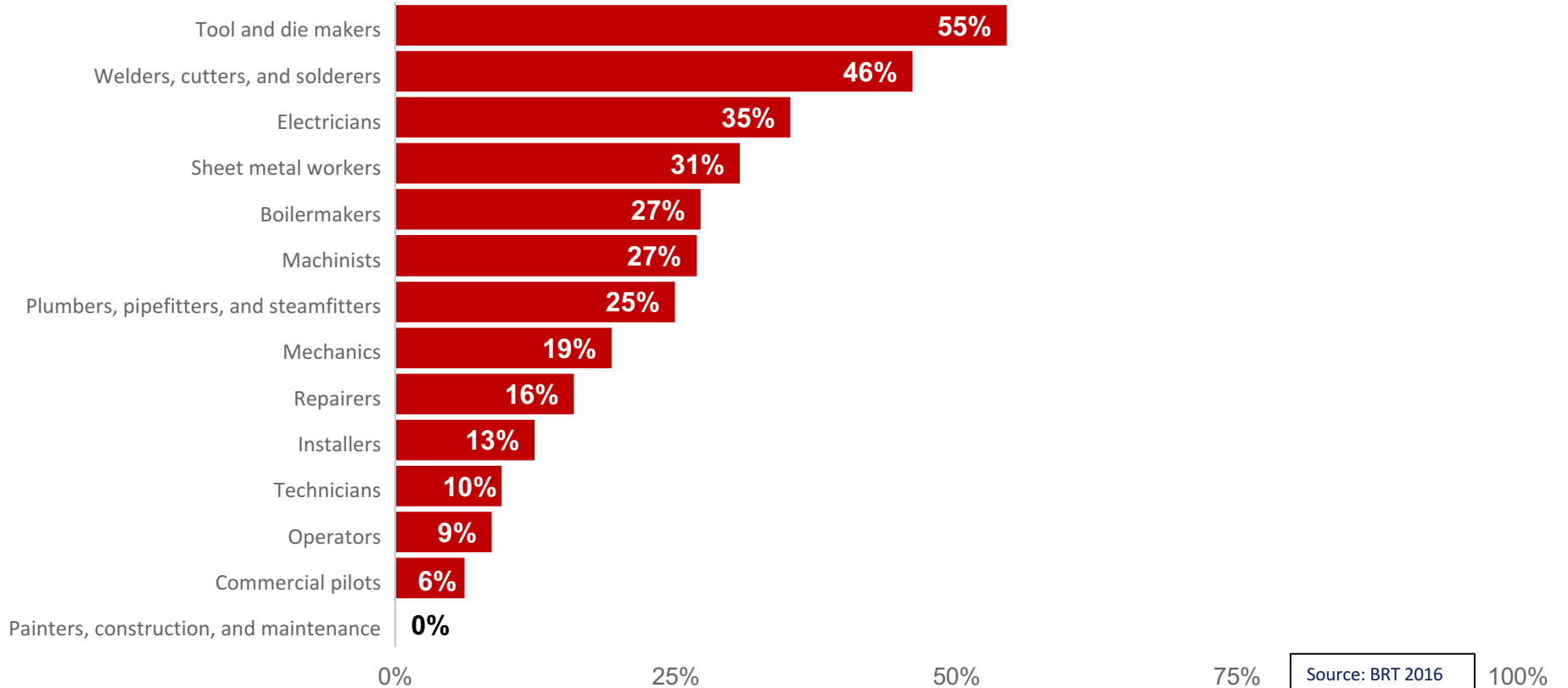
Source: BRT 2016
Member Company
Talent Survey

Among skilled trades, respondents indicated having the greatest difficulty finding qualified tool & die makers, welders/cutters/solderers, and electricians.

Q

For the following skilled trade occupations, please indicate your agreement with the following statement: I am able to find qualified candidates for open positions.

% of Respondents Indicating “Disagree” or “Strongly Disagree” Regarding Ability to Find Qualified Candidates



Responses: n = 12 – 34, depending on skilled trade type

Note: this list excludes skilled trade occupations employed by less than 12 BRT member companies

Source: BRT 2016
Member Company
Talent Survey

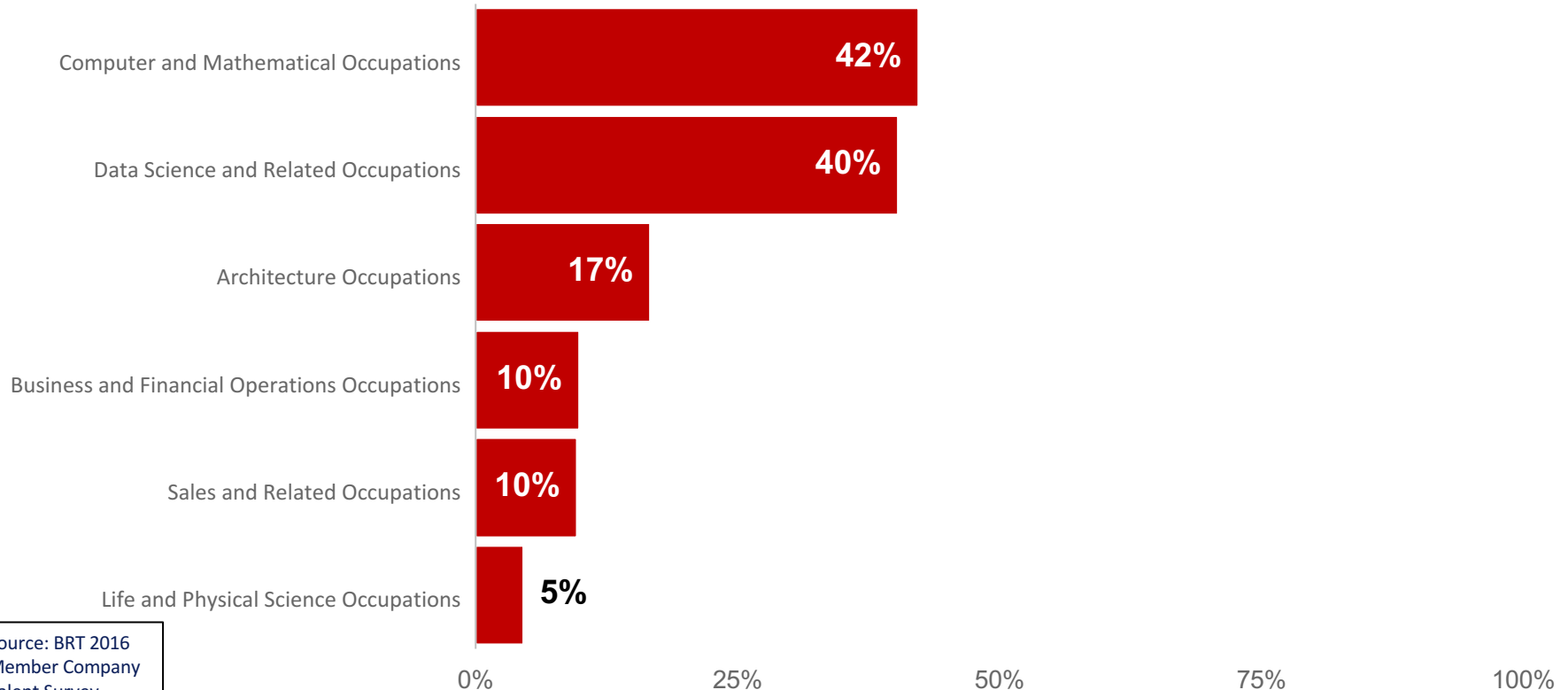
100%

Outside of engineering and skilled trade positions, respondents reported have the most difficulty hiring data science and computer/mathematical workers.

Q

For the following other occupations, please indicate your agreement with the following statement: I am able to find qualified candidates for open positions.

% of Respondents Indicating “Disagree” or “Strongly Disagree” Regarding Ability to Find Qualified Candidates



Source: BRT 2016
Member Company
Talent Survey

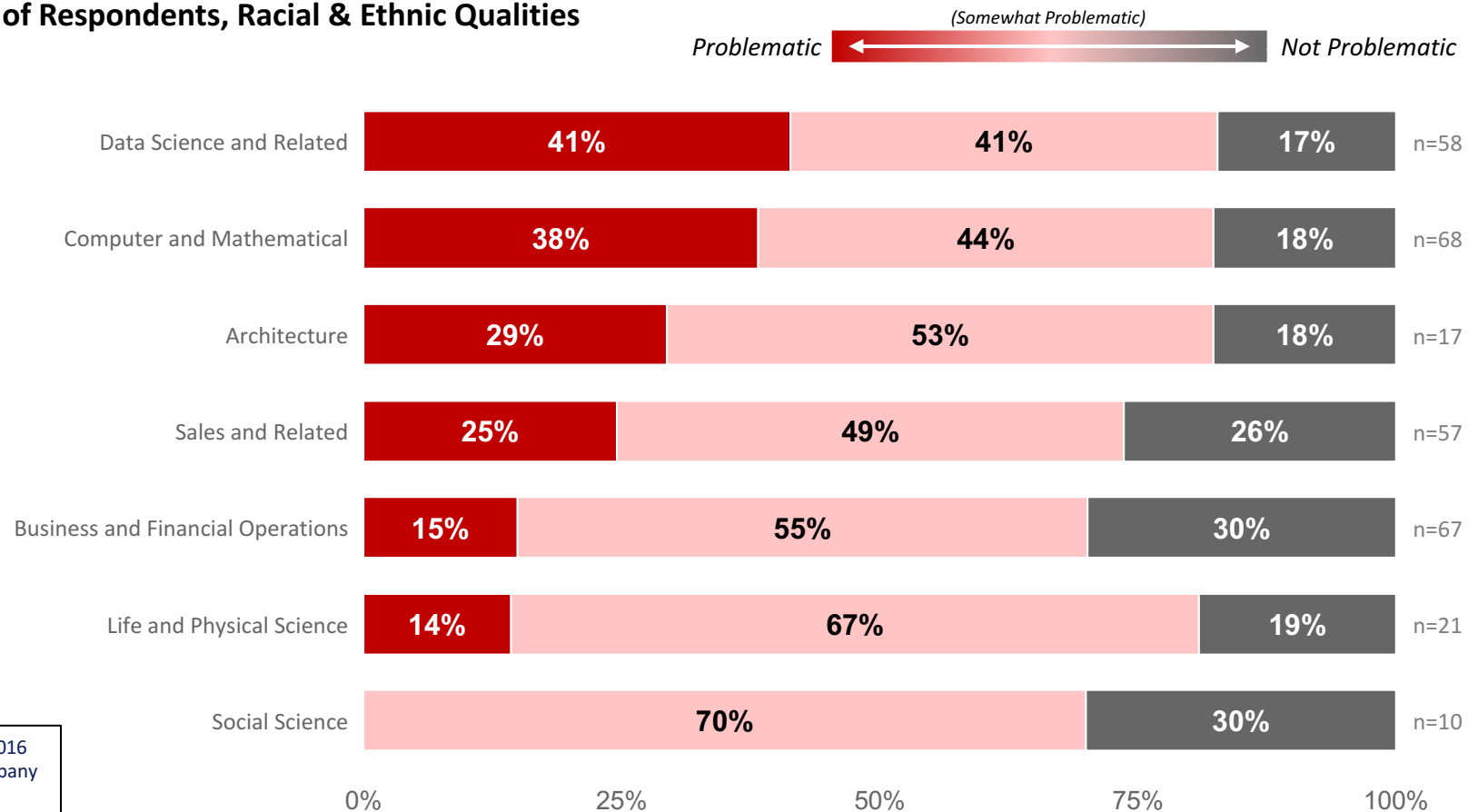
Responses: n = 10 – 71, depending on other occupation type
Note: Excludes “Other” category (0 responses)

Hiring racially and ethnically diverse candidates is at least somewhat problematic for most companies, particularly architects and data and computer scientists.

Q

For each **other occupation** below, please indicate whether your company struggles to hire qualified candidates with diverse demographic qualities for your U.S. workforce.

Percent of Respondents, Racial & Ethnic Qualities



Source: BRT 2016 Member Company Talent Survey

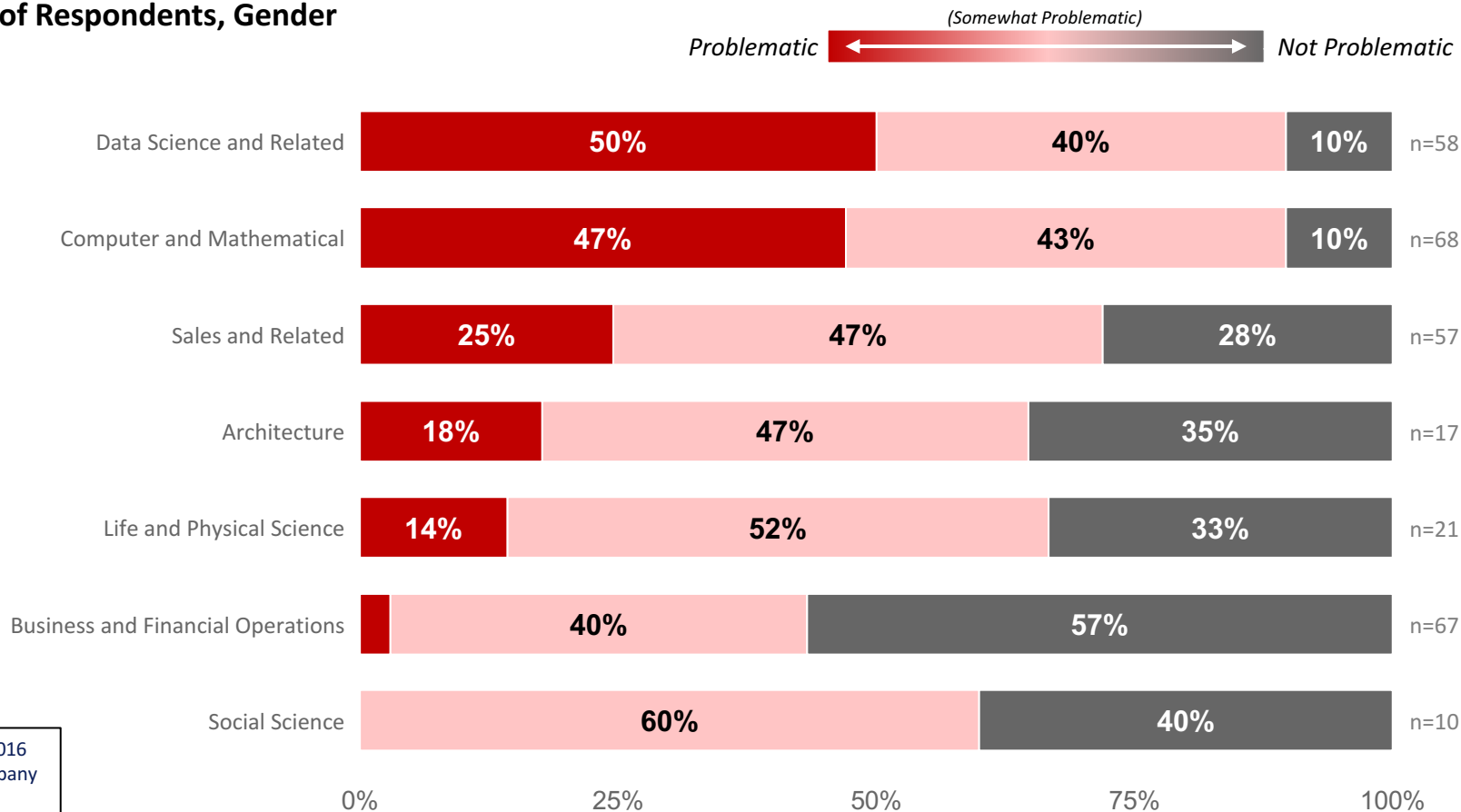
Responses: n = 10 – 68, depending on other occupation type

Nearly 9 in 10 respondents indicated that ensuring gender diversity in data science and computer/mathematical occupations is at least somewhat problematic.

Q

For each **other occupation** below, please indicate whether your company struggles to hire qualified candidates with diverse demographic qualities for your U.S. workforce.

Percent of Respondents, Gender



Source: BRT 2016 Member Company Talent Survey

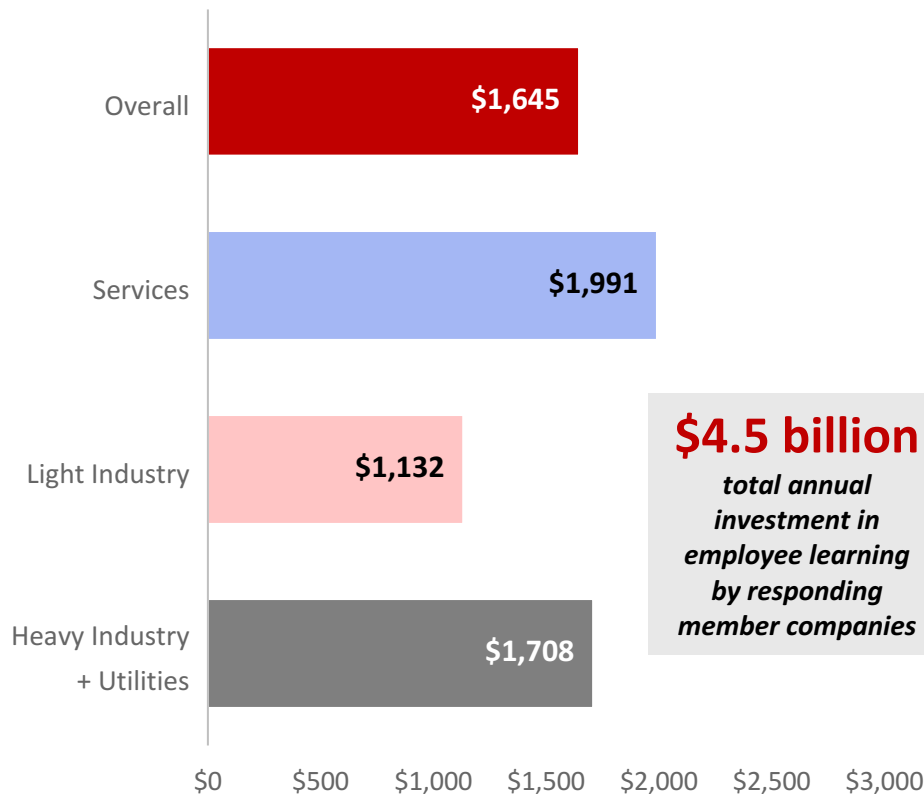
Responses: n = 10 – 68, depending on other occupation type

On average, firms invest over \$1,600 per employee each year on learning and development programs. Most plan to increase this investment in the next 2 years.

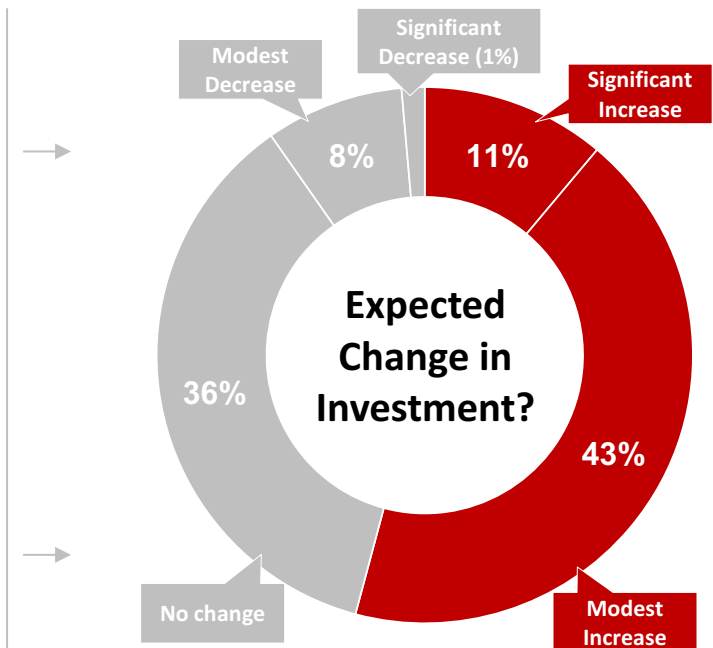
Q

Approximately how much does your organization invest annually in employee learning & development activities? How do you expect this to change over the next 24 months?

Annual Investment Per Employee in Learning & Development



Expected Change in Investment



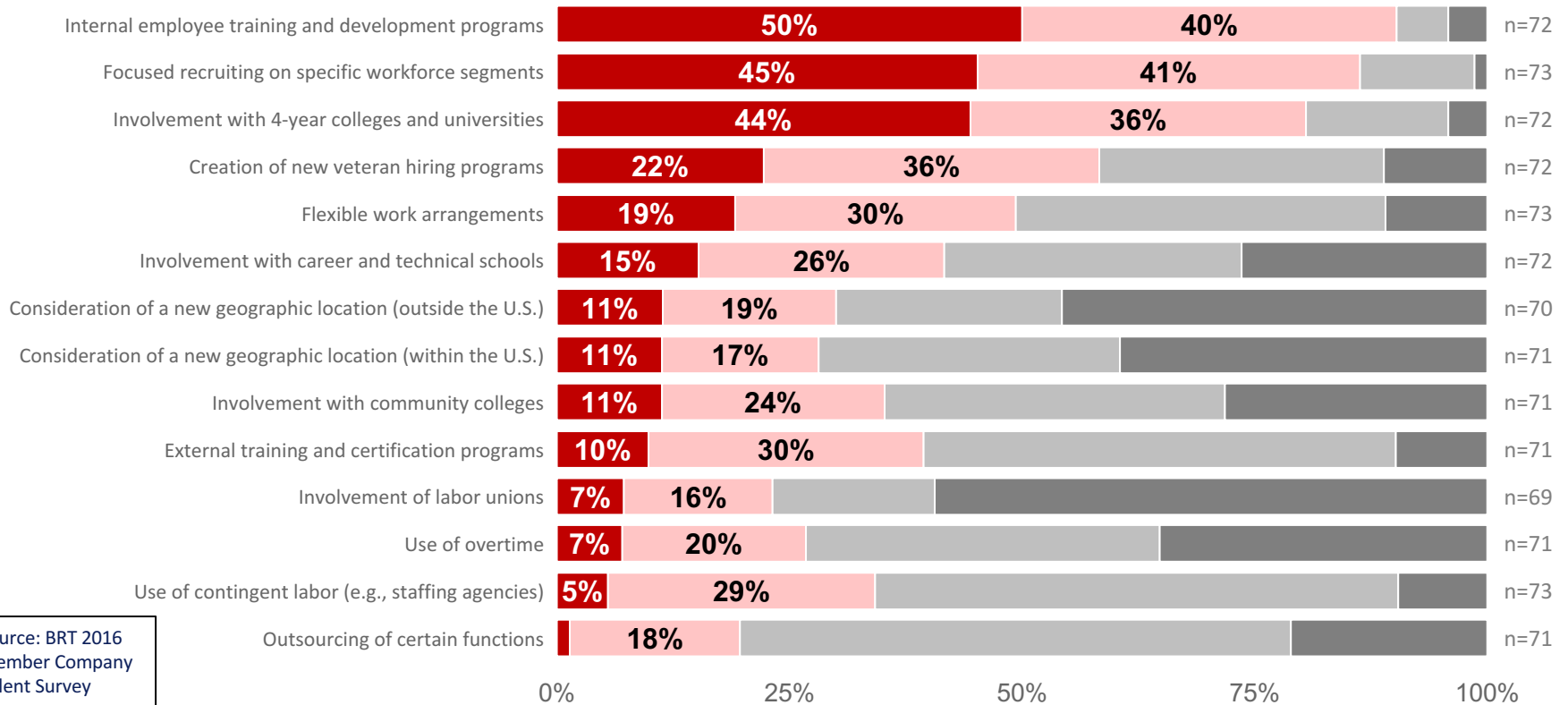
Source: BRT 2016 Member Company Talent Survey

To mitigate skills shortages, respondents conduct internal training, recruit for specific workforce segment, and partner with 4-year colleges and universities.

Q How important are the following techniques to mitigate the effects of existing skills shortages within your workforce?

Percent of Respondents

Very Important ← (Important) (Somewhat) → Not Important



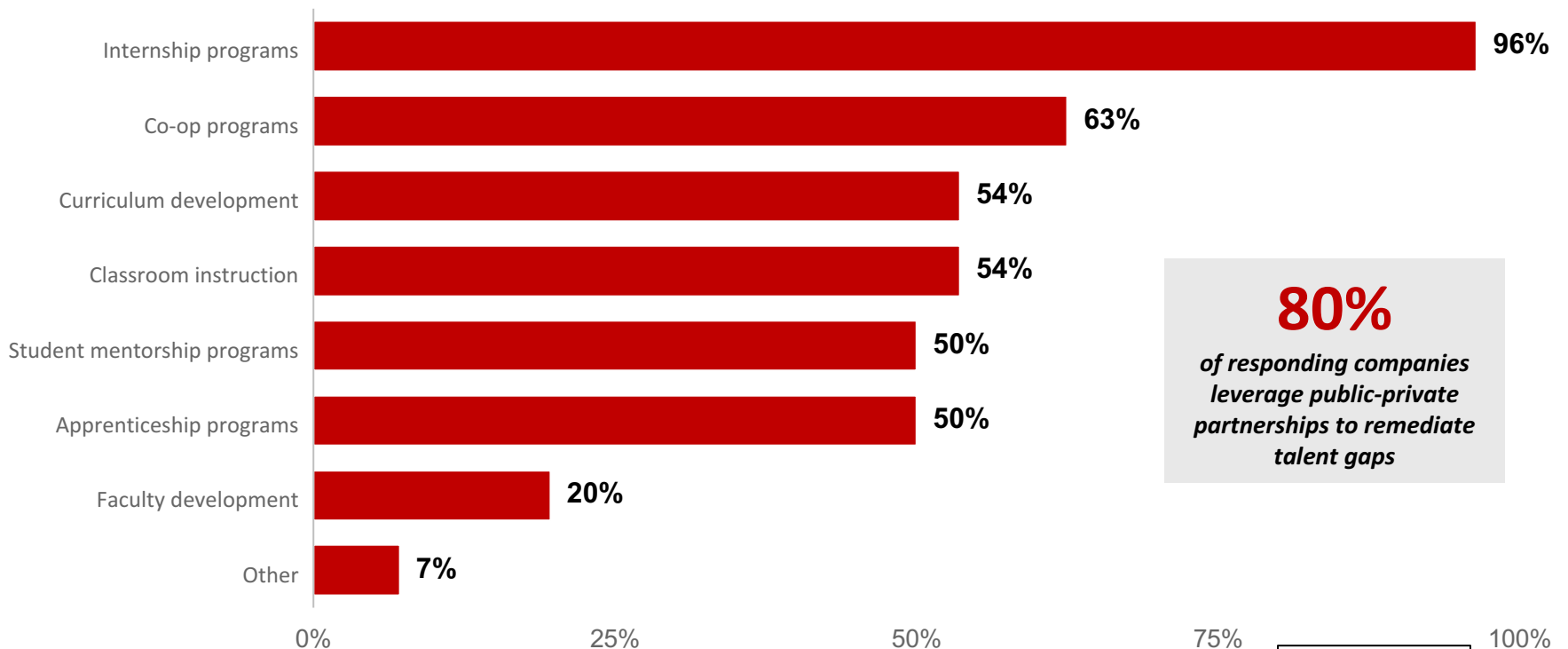
Source: BRT 2016 Member Company Talent Survey

Most respondents leverage public-private partnerships to remediate talent gaps, predominantly through internship and co-op programs.

Q

Is your company currently engaged in any public-private partnerships regarding workforce training or skills development, including partnerships with local universities, community colleges, technical schools, or high schools? What types of programs do these partnerships support?

Percent of Respondents



80%

of responding companies leverage public-private partnerships to remediate talent gaps

Responses: n = 56

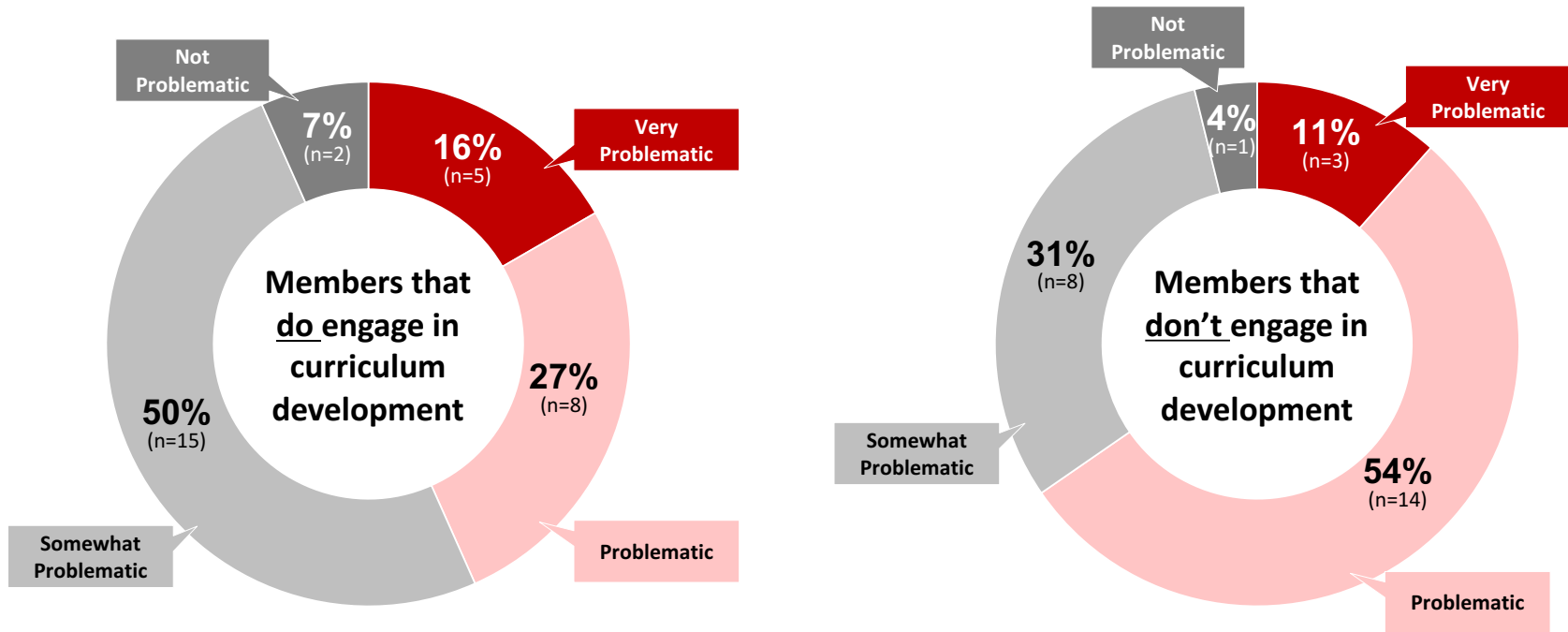
Source: BRT 2016
Member Company
Talent Survey

BRT members that participate in curriculum development programs are less likely to view their company's skills shortages as problematic or very problematic.

Q

[Cross-Tab: Slides 5 and 18] To what extent do you consider skills shortages to be a significant problem for your company in the United States?


Percent of Respondents (Those Answering Question on Slide 18)



Responses: n = 30 (left), n = 26 (right)


Source: BRT 2016 Member Company Talent Survey

For more information, visit
[BusinessRoundtable.org/skills](https://www.businessroundtable.org/skills)



WORK

in **PROGRESS**



How CEOs Are Helping Close America's Skills Gap

JUNE 2017