

Tech Talent Hiring Trends Survey

October 2023



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1. Executive Summary



Executive Summary



The 2023 Tech: NYC and Accenture Tech Talent Survey shows there is continued focus on hiring tech talent in 2023



Companies are optimistic about finding this technology talent in New York City



Employers have a continued focus on Cloud, Security, AI and Data Technology skills



Skilling and upskilling continue to rise as a source of tech talent



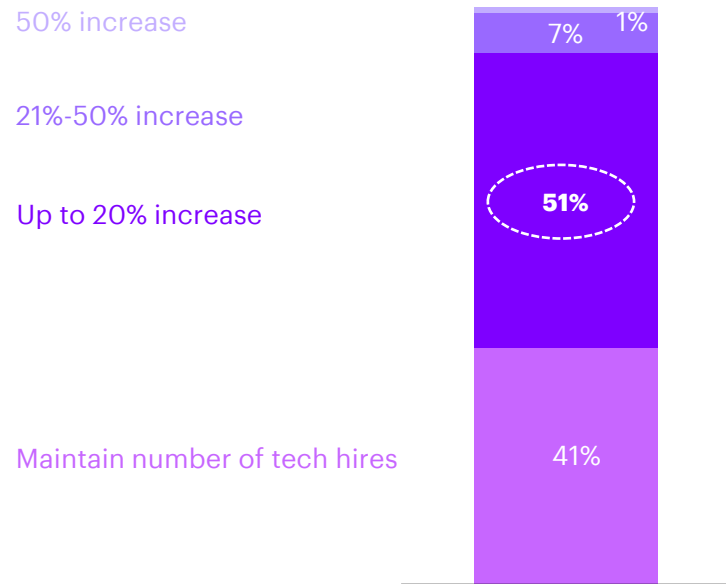
Companies are also focused on leveraging their benefits and culture to attract and retain talent

Demand for tech talent continues

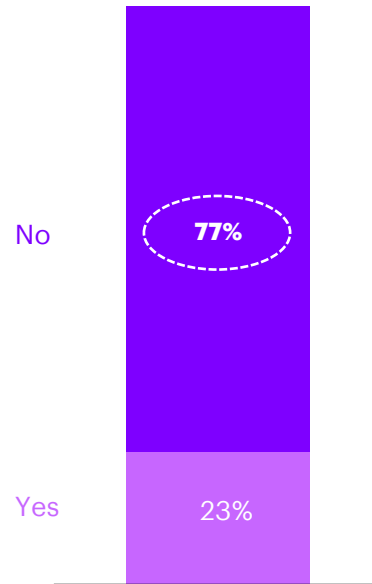
Most organizations are growing their employee workforce and plan to continue doing so through 2023. More than half (59%) plan to increase their number of tech hires, with half planning an increase of up to 20% more tech hires than in 2022.

Companies are doing this while maintaining existing degree requirements for new hires and with no intention of restructuring their work location.

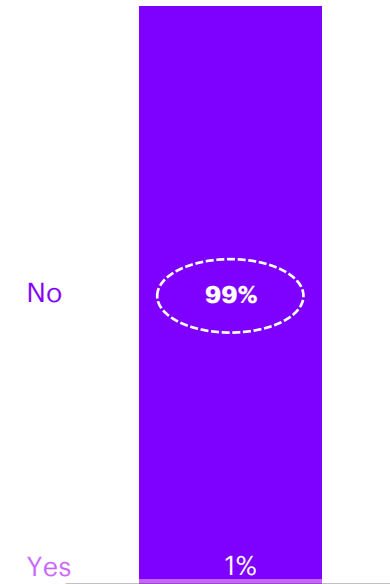
of Tech Hires in 2023 vs. 2022



Removed/reduced degree requirements in last year/6 months



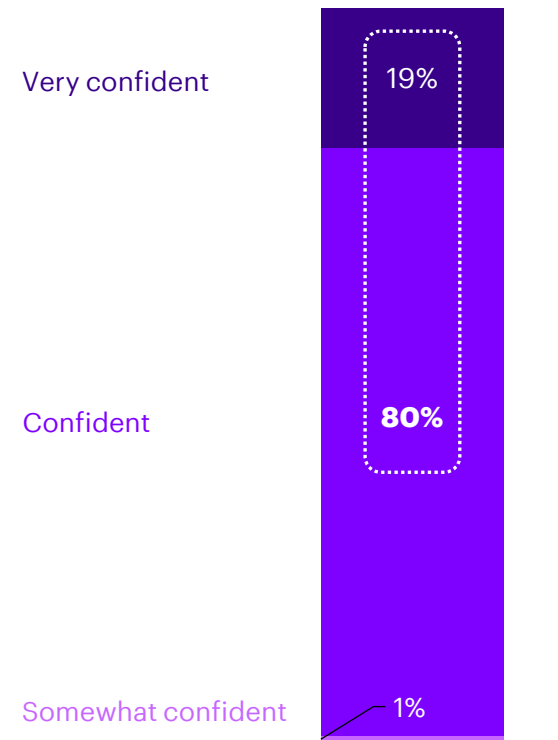
Plan to restructure operations regarding employee work location in 2023



Sourcing talent to work in NYC

Almost all surveyed companies are confident or very confident that their organizations will be able to secure the tech skills needed in 2023 from the talent pool in New York City.

Confidence with being able to secure needed tech skills in 2023 from the talent pool in New York City

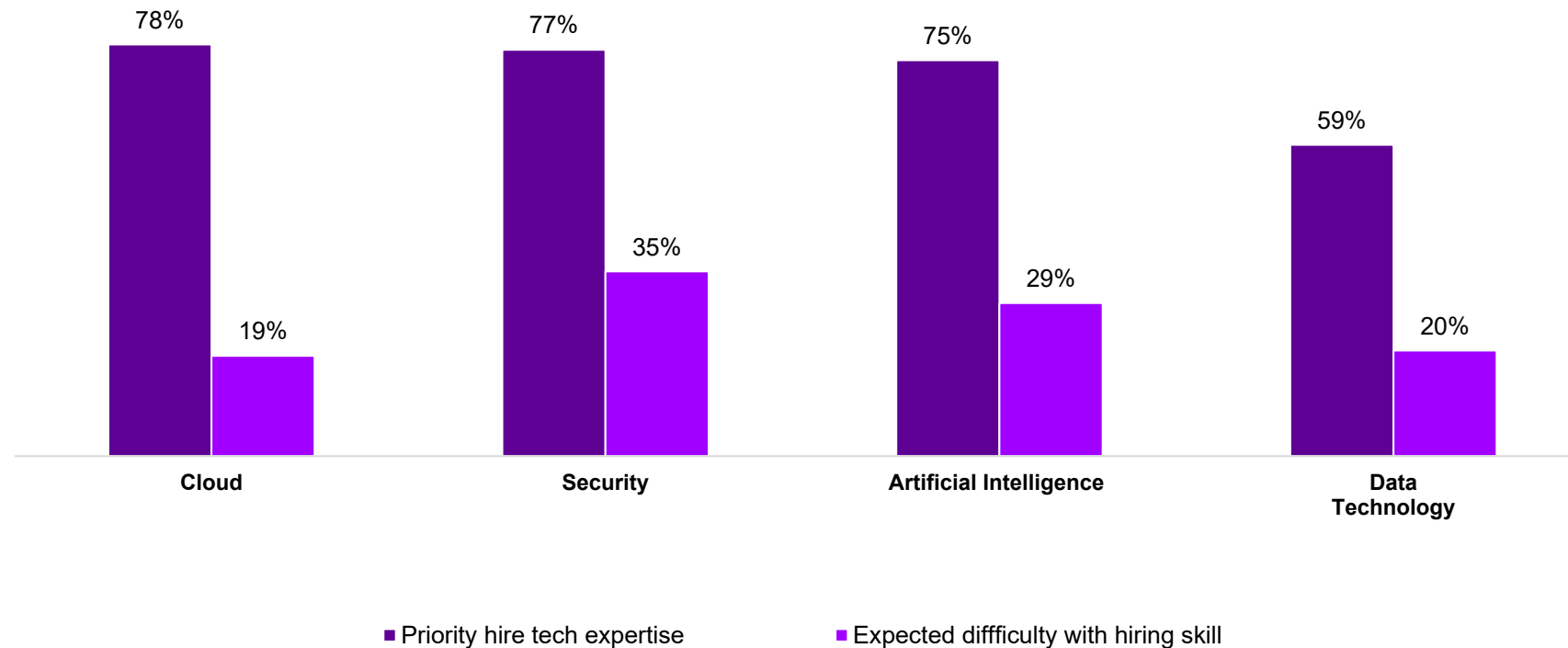


Cloud, Security and AI still considered top skills

When looking for tech talent, skills in Cloud, Security, Artificial Intelligence (including machine learning) and Data Technology continue to set candidates apart. This is consistent with 2022 results.

Of these hiring priorities companies expect the most difficulty hiring for security skills, followed by AI.

2023 Hiring Priorities vs. Expected Difficulty in Hiring in 2023



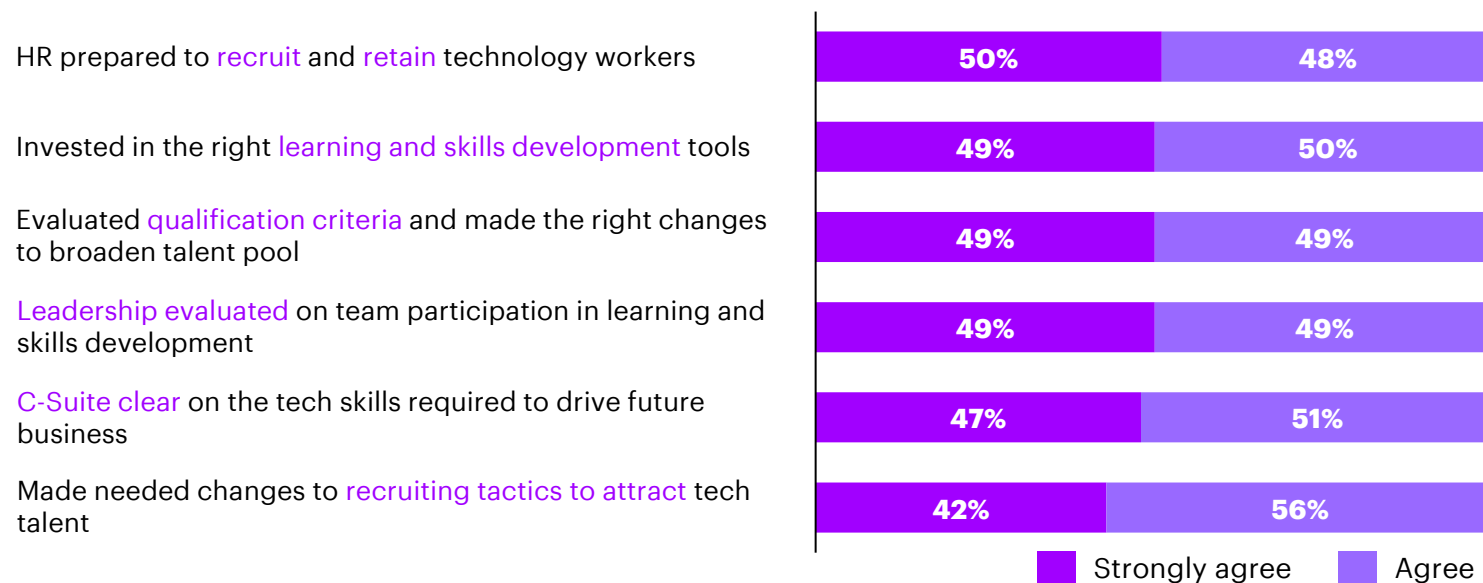
An emphasis on skilling and upskilling

Skilled and upskilled workers have become increasingly common sources for tech talent needs.

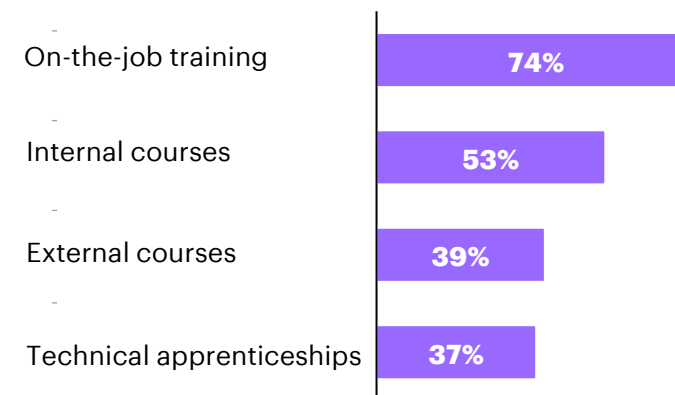
NYC companies are taking strategic steps to grow and nurture their tech workforce. They are confident in the ability and preparedness of staff to recruit, develop, and retain the required skill sets.

Approximately three in four organizations use on-the-job training to reskill their tech employees, with over half leveraging internal courses.

Agreement with statements



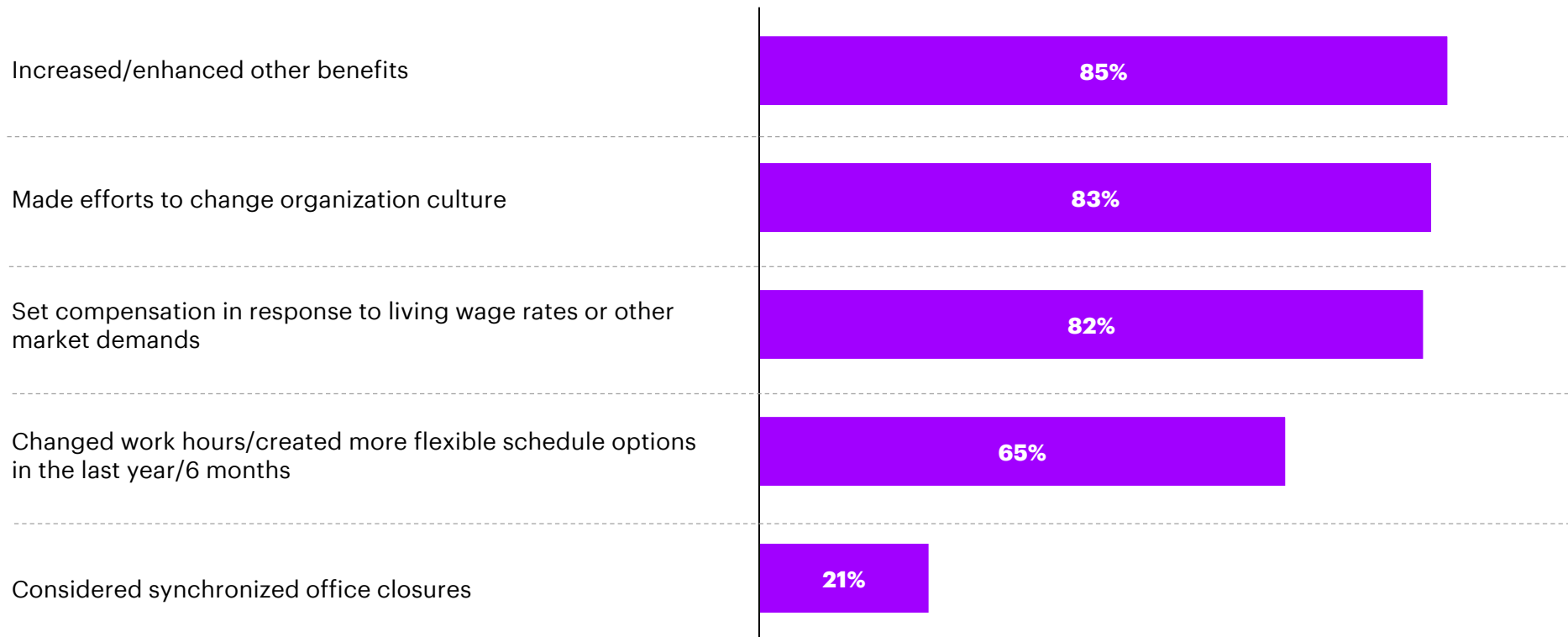
Used to reskill tech employees



Retention and focus on benefits and culture

Organizations are making themselves more appealing to not only attract new talent, but to also keep their current workforce happy. Many are increasing or enhancing their benefits, changing their organization culture, and setting compensation in response to living wage rates/other market demands.

Organization's talent efforts





2. Demographics

Demographics

350 C-level executives working across 11 industries for organizations with at least one work location in the New York City borough of Manhattan, Brooklyn, The Bronx, Staten Island, and Queens were surveyed between June and July 2023.

Title/Role	n	%	NYC Employees	n	%	Revenue	n	%	Industry	n	%	
Chief Technology Officer	82	23%	Less than 50	20	6%	\$50 billion or more	21	6%	Banking	32	9%	
			50-100	18	5%				Capital Markets	32	9%	
Chief Financial Officer	65	19%	101-500	51	15%	\$20 to \$49.9 billion	29	8%	Communications, Media & Entertainment	32	9%	
Chief Strategy Officer	60	17%	501-1,000	98	28%	\$10 to \$19.9 billion	60	17%				
Chief Marketing Officer	53	15%	1,001-5,000	102	29%	\$6 to \$9.9 billion	69	20%	Education	32	9%	
Chief HR Officer	43	12%	5,001-10,000	40	11%				Healthcare Payer	31	9%	
Chief Information Officer/Chief Information & Digital Officer	29	8%	More than 10,000	21	6%	\$1 to \$5.9 billion	110	31%	Healthcare Provider	31	9%	
			NYC Tech Employees *	n	%				Insurance	32	9%	
Chief Executive Officer	15	4%	Up to 50	220	63%	\$500 to \$999 million	20	6%	Pharmaceuticals / Biomedical	32	9%	
Other C-Suite	3	1%	51-200	113	32%	\$250 to \$499 million	20	6%				
Borough			More than 200		17	5%	Less than \$250 million	21	6%	Consumer Goods/ Retail / Fashion	32	9%
Manhattan	156	45%	Average	197	56%	Technology / High Tech / Fintech				32	9%	
Brooklyn	87	25%	Organization size by Revenue *		n		%	FTEs based in NYC*				n
The Bronx	45	13%	Large (\$20 Billion>)	50	14%	>5000 employees	61	17%	State and Local Government	32	9%	
Staten Island	42	12%	Medium (\$1-\$19.9 Billion)	239	68%	501 to 5000 employees	200	57%				
Queens	37	11%	Small (<\$999 Million)	61	18%	<500 employees	89	25%				



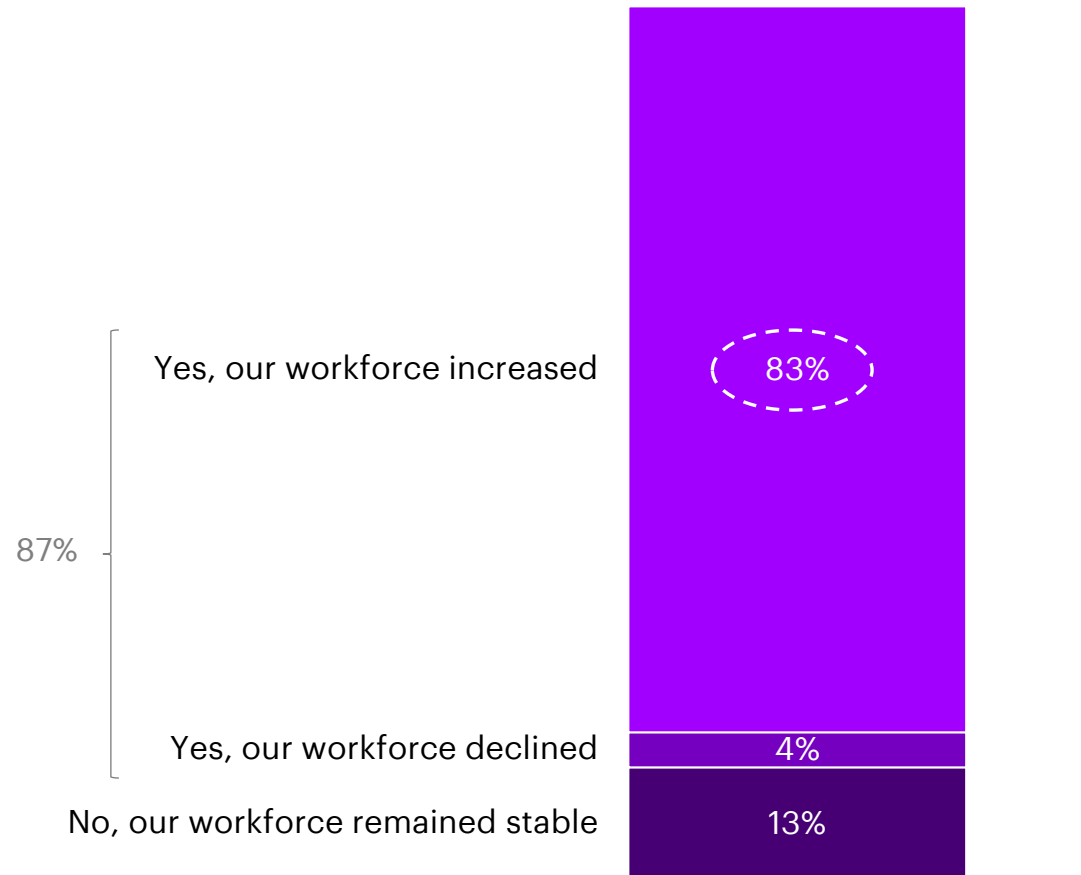


3. Detailed Results



Most organizations (87%) changed their workforce in 2022, with 83% having increased the number of employees.

Did your organization change its workforce (i.e., full-time employees) in 2022?



Significantly more medium revenue sized organizations increased their number of employees compared with the larger ones (86% vs. 72% increases, respectively).

Manhattan and Queens increased their workforce significantly more than The Bronx (87% and 89% vs. 69% increases, respectively).

Capital Markets (94%), Insurance (91%) and Consumer Goods/Retail/Fashion (91%) saw the greatest increases in their workforce numbers, while Education (25%) suffered significantly bigger decreases in their employee numbers, compared with the other industries.

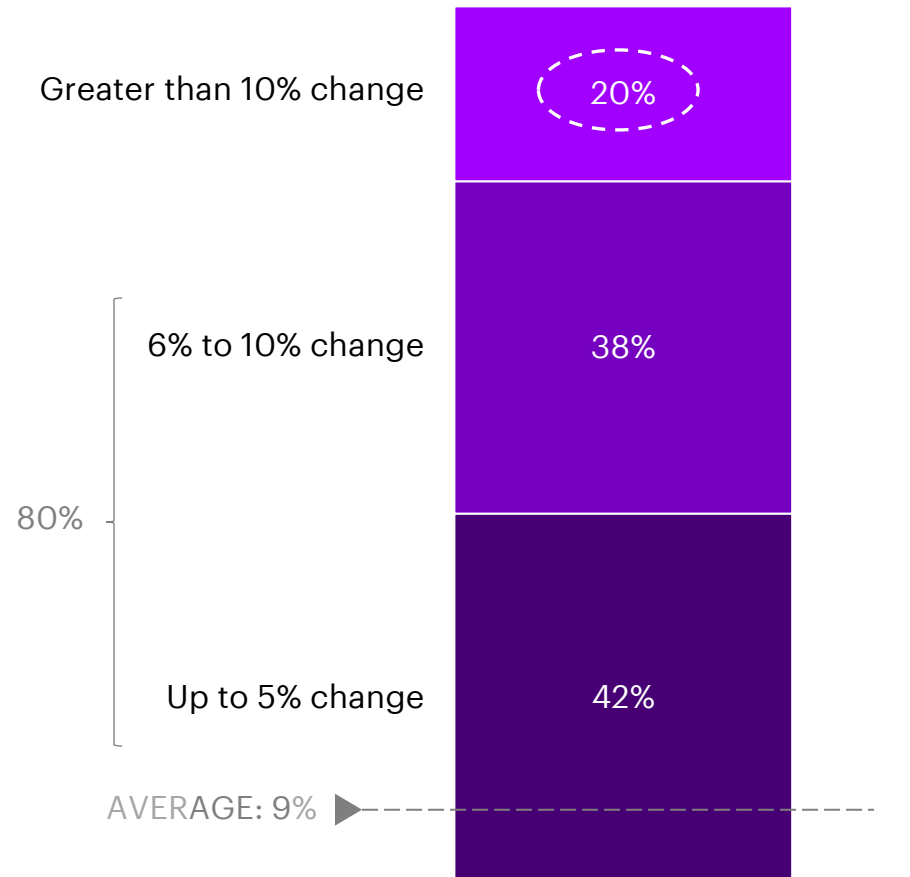
Base = Total sample; n=350



Of those who changed their workforce, one in five (20%) applied changes greater than 10% across their employees.

By what approximate percentage did your organization change* its workforce in 2022?

*Change refers to increases or decreases in workforce



Organizations with more than 5,000 full-time employees based in NYC changed their workforce (on average) by 11.6%, significantly more than those with fewer employees (i.e., 9.9% by those with between 501 and 5,000 employees, 6.5% of changes applied by organizations with less than 500).

Significantly larger and medium revenue size organizations changed their workforce, on average, by 9.3% and 10.3%, respectively, compared with the smaller organizations who applied an average change of 5.6% in their workforce.

Significantly greater changes, on average, were applied to the workforces in Manhattan (10.4%) and Brooklyn (10.3%), compared with The Bronx (6.2%).

Healthcare Providers (16%) and Communications, Media & Entertainment (13.8%) applied more changes, on average, to their workforce, compared with the other industries. State and Local Government applied the least changes (5.4%).

Base = Organizations that changed (increased or decreased) their workforce; n=302 (Also excludes Don't know/Unsure responses of n=4)

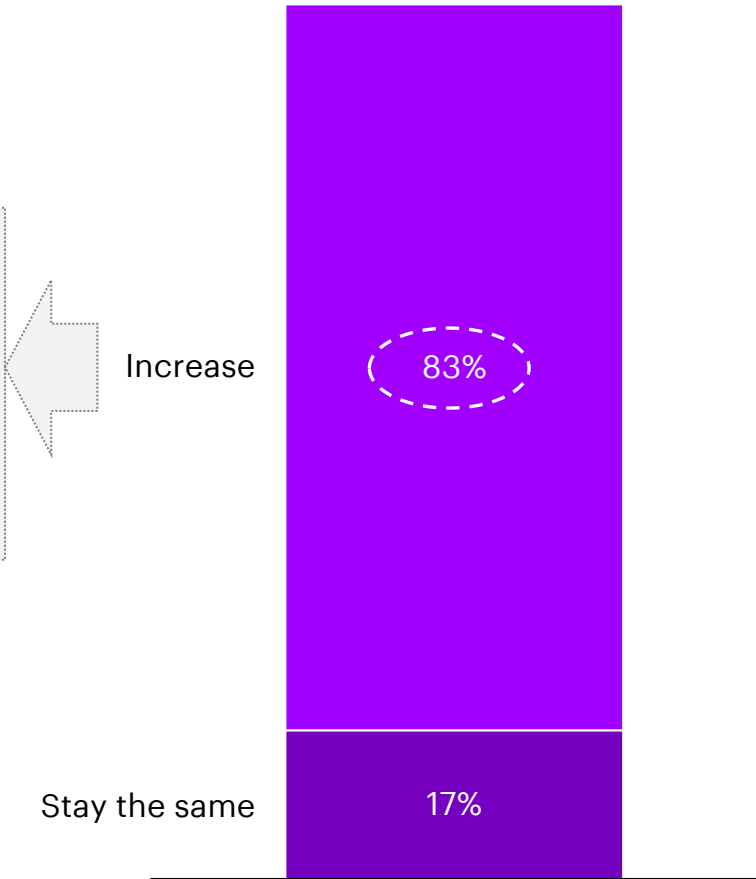


Most organizations (83%) plan to increase their overall workforce in 2023.

Does your organization plan to increase/decrease its workforce in 2023?

Those who increased their workforce in the past plan to continue growing these numbers more in the future.

Considering only those organizations who increased their number of full-time employees in 2022, significantly more (88%) plan to further increase the number of full-time employees in 2023.



Significantly more (89%) organizations with between 501 and 5,000 full-time employees based in NYC plan to increase their workforce in 2023 (compared with 75% of those with less than 500 employees).

Significantly more medium revenue organizations plan to further increase their workforce, compared with the smaller revenue size organizations (87%, vs. 70%, respectively).

Significantly more organizations in Brooklyn (90%) plan to increase their workforce in 2023 compared with 79% of those in Manhattan.

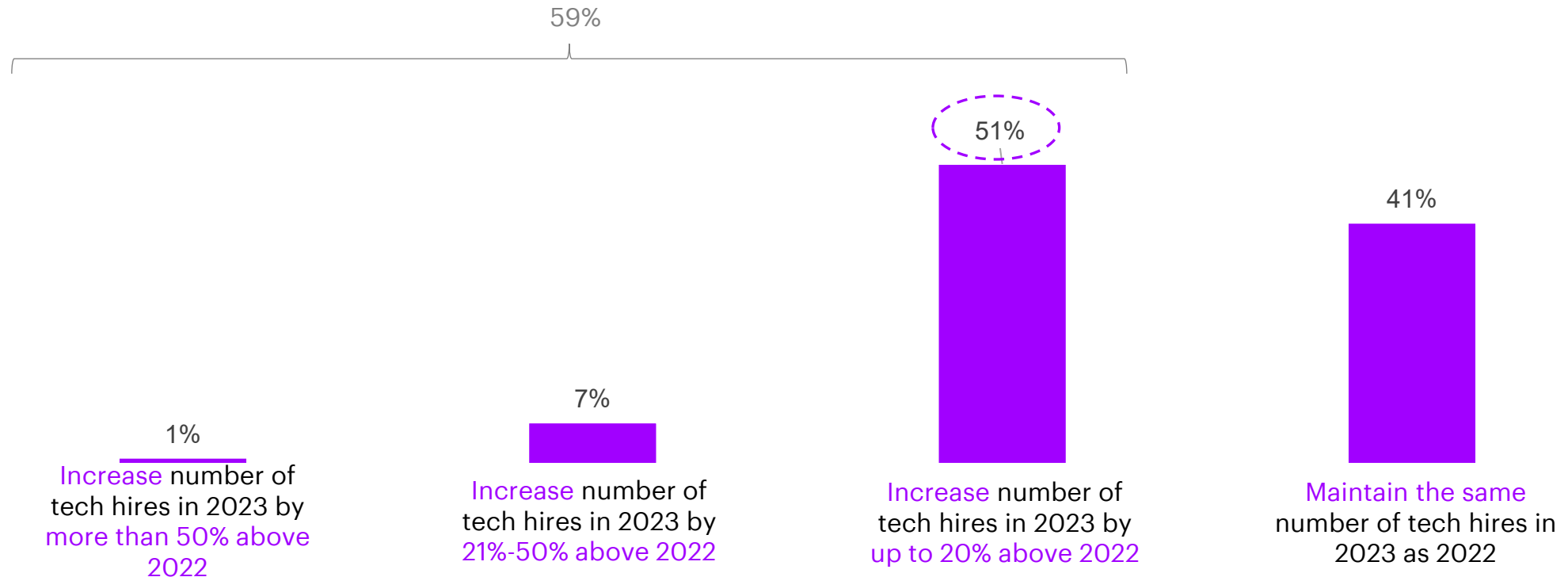
Significantly more (97%) organizations within the Banking industry plan to increase their workforce compared with the rest.

Base = Total sample; n=350



More than half organizations (59%) plan to increase the number of tech hires in 2023, with around one in two (51%) planning an increase of up to 20% more than in 2022.

Is your organization planning to increase, maintain, or decrease the number of tech hires in 2023 compared to 2022?



Significantly more organizations within the Insurance (78%), State & Local Government (75%), Banking (72%) and Technology / High Tech / FinTech (69%) plan to increase their tech hires more than those in Education (44%), Healthcare Payers (42%), and Healthcare Providers (39%).

Organizations in The Bronx (84%) and Queens (76%) plan to increase their tech hires in 2023 significantly more than organizations in Manhattan (52%).

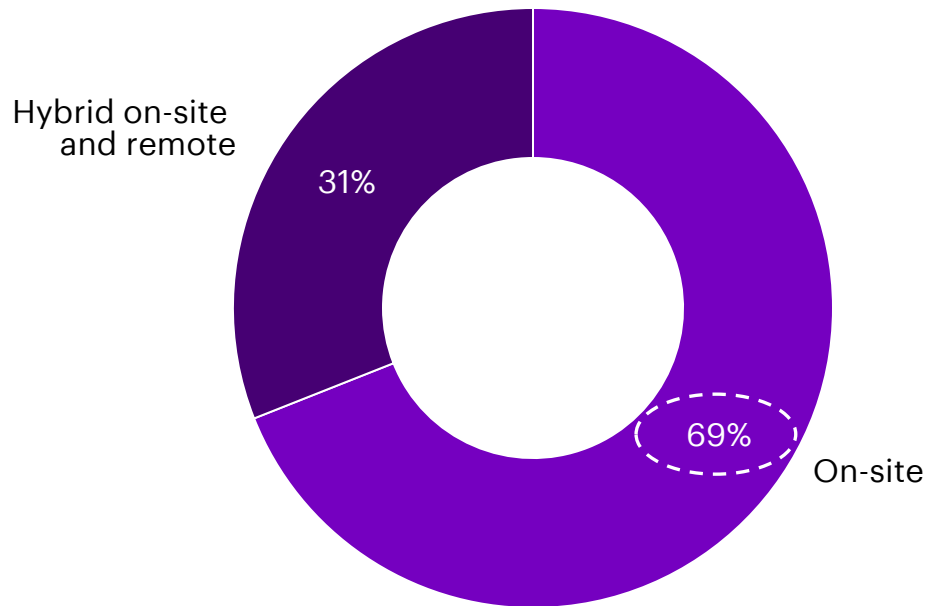
Significantly more (67%) organizations with more than 5,000 full-time employees based in NYC plan to increase their number of tech hires in 2023 (compared with 51% with less than 500).

Base = Total sample; n=350



Despite most (69%) primarily operating on-site, almost all (99%) do not intend to restructure their employee work location in 2023.

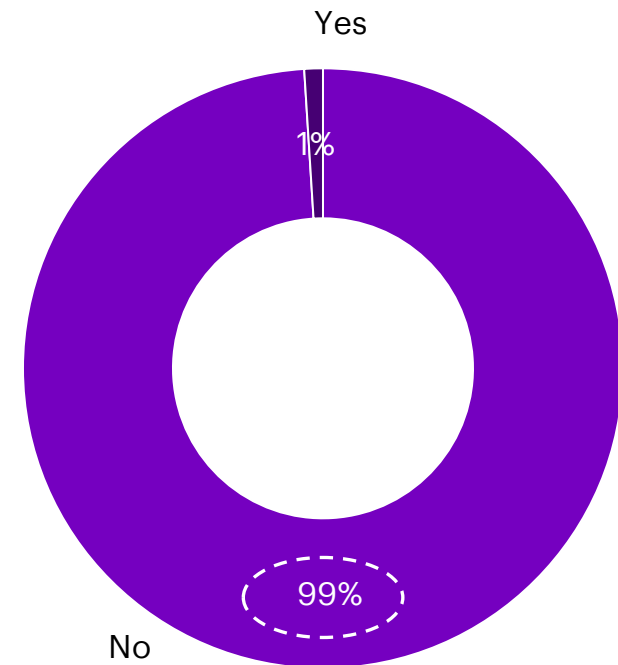
How is your organization primarily operating?



Significantly more larger and medium revenue organizations operate on-site (76%, 73%), while smaller organizations operate more hybrid (54%).

Base = Total sample; n=350

Does your organization plan to restructure how it operates in 2023 regarding employee work location?

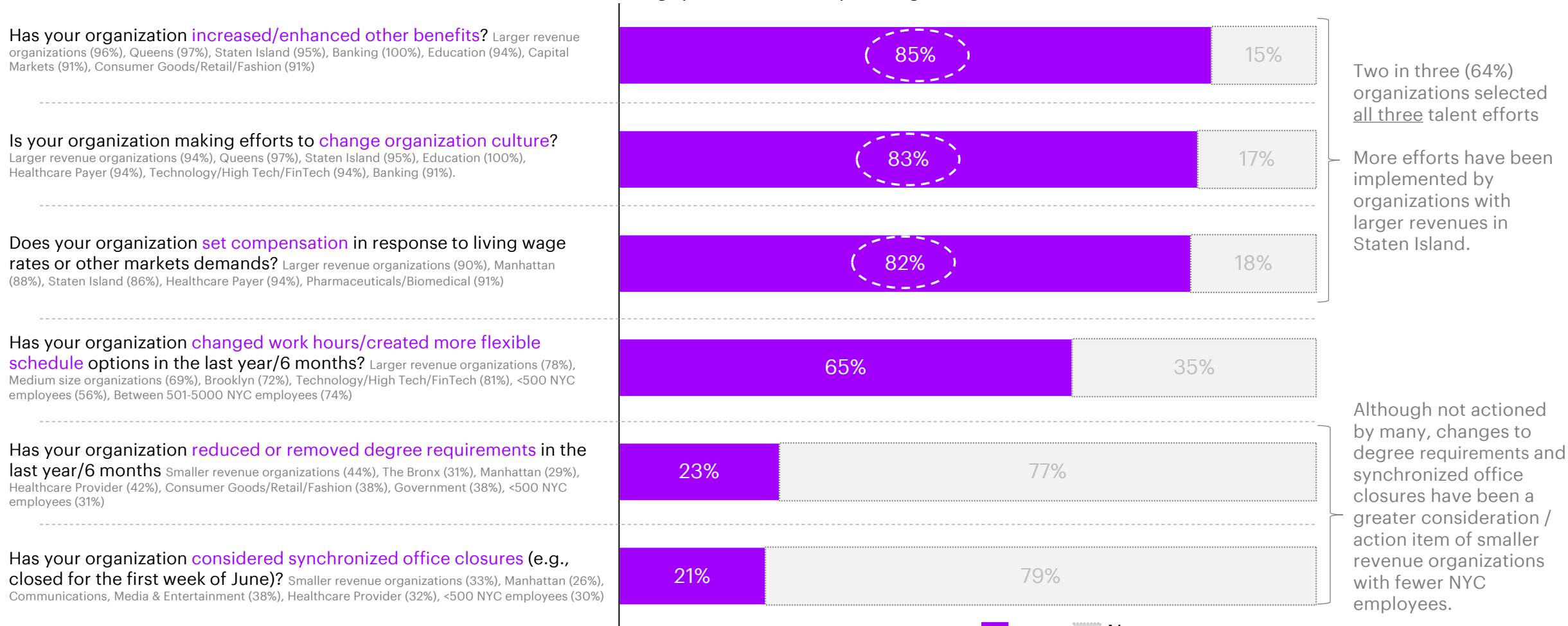


Base = Total sample; n=348
(Excludes Don't know/Unsure responses of n=2)



Over four in five have increased/enhanced benefits, made efforts to change their culture, and set compensation in response to living wage rates or other market demands as part of their talent efforts.

Please answer the following questions about your organization's talent efforts.



NOTE: Differences highlighted are reflecting YES responses.

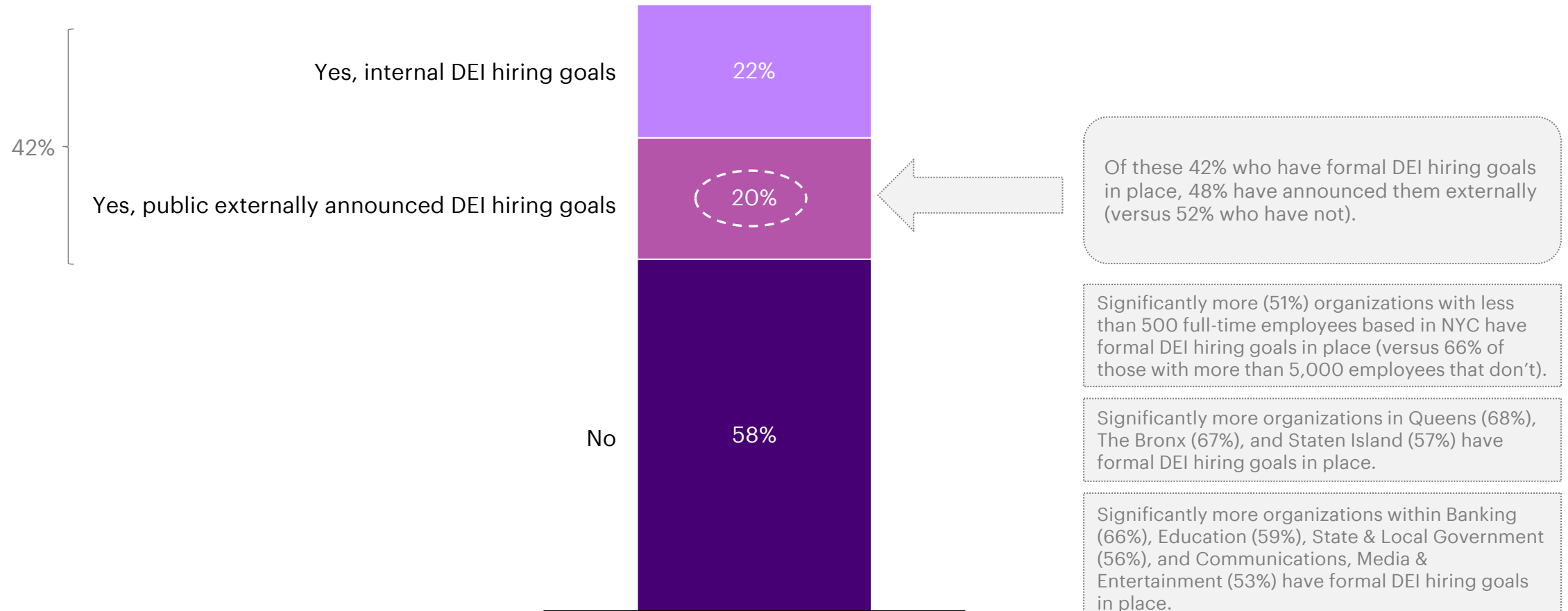
Base = Total sample; n=350

Yes No

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Less than half (42%) have formal diversity, equity, and inclusion (DEI) hiring goals in place. Of these, one in five have publicly announced goals.

Does your organization have formal diversity, equity, and inclusion (DEI) hiring goals?

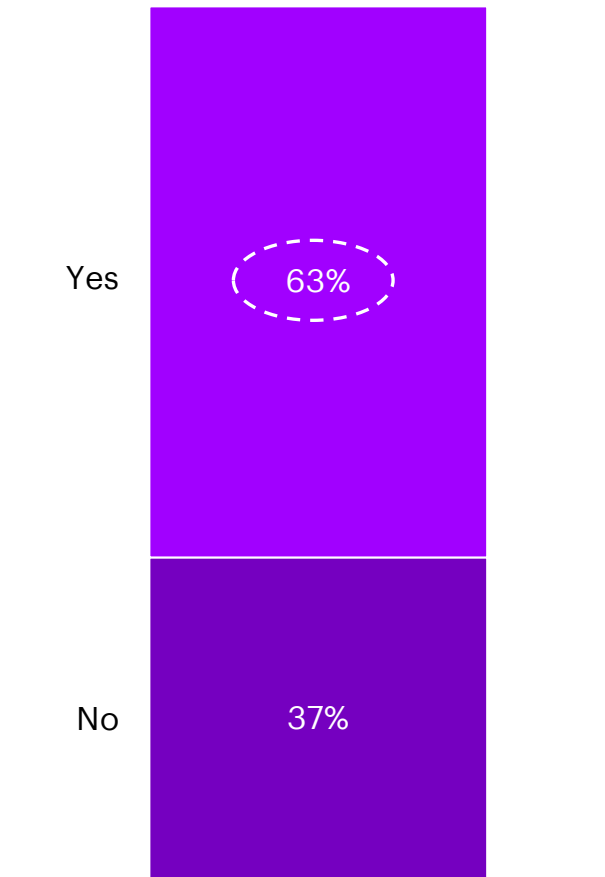


Base = Total sample; n=350



Of those companies that have formal DEI hiring goals in place, around two in three (63%) have changed them since 2021...

Since 2021, have your organization's DEI hiring goals changed?



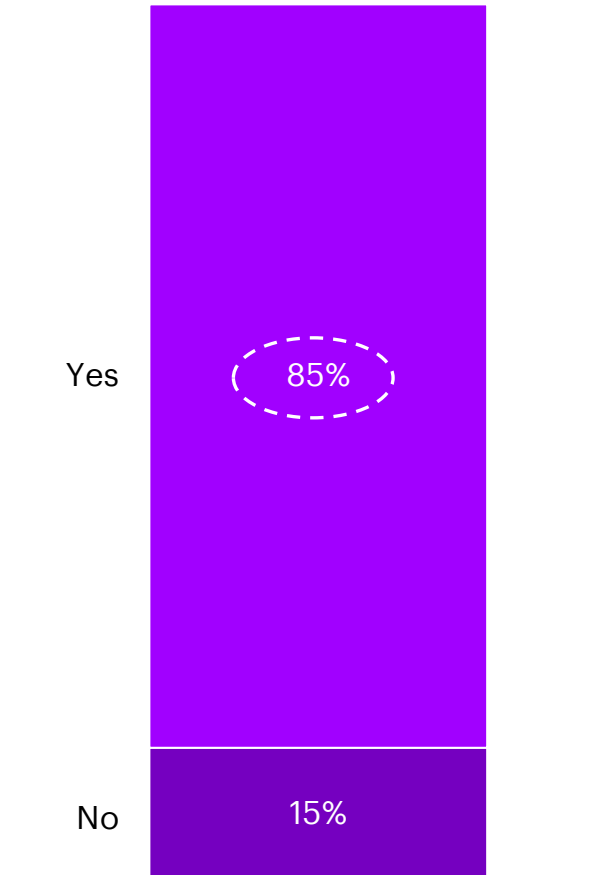
Significantly more organizations in The Bronx (93%) have changed their DEI hiring goals since 2021.

Base = Organizations who have formal DEI hiring goals in place, n=145.
(Also excludes Don't know/Unsure responses of n=1)



... and changed their hiring practices to meet these new DEI goals ...

Did your organization change hiring practices to meet these DEI goals?

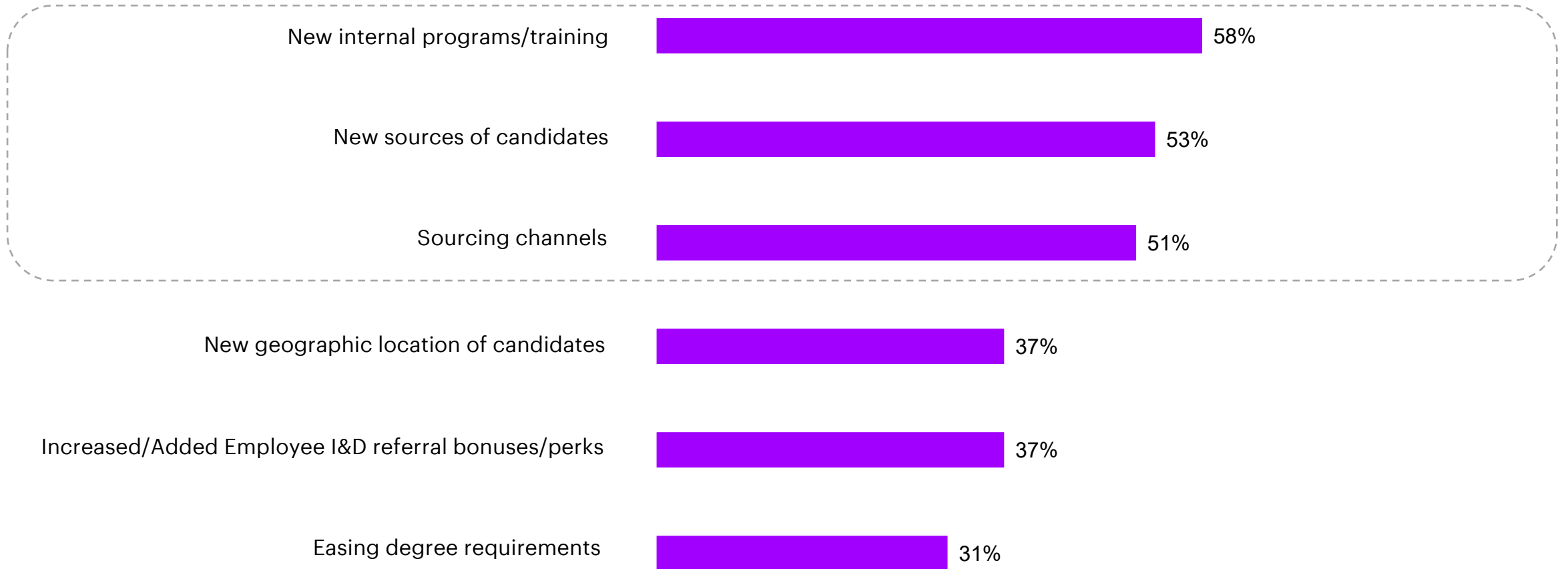


Base = Organizations whose DEI hiring goals have changed since 2021, n=92.



... such as adopting new internal programs/training, new sources of candidates and sourcing channels, amongst others.

Which of the following hiring initiatives did your organization adopt to meet DEI hiring goals?

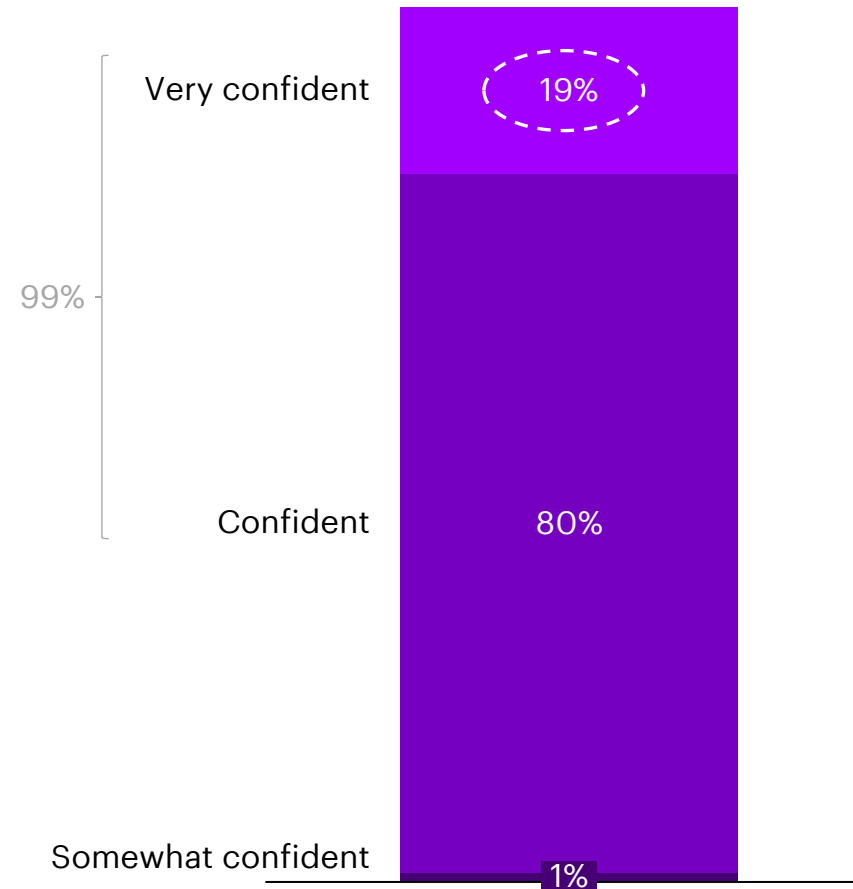


Base = Organizations who changed their hiring practices to meet their DEI goals, n=78



Almost all (99%) are confident/very confident that their organization will be able to secure the tech skills needed in 2023 from the talent pool in NYC.

How confident are you that your organization will be able to secure the tech skills needed in 2023 from the talent pool in New York City?



Larger revenue organizations are less certain than medium size ones in terms of their ability to secure the tech skills needed in 2023, with 8% very confident, versus 23% of medium organizations.

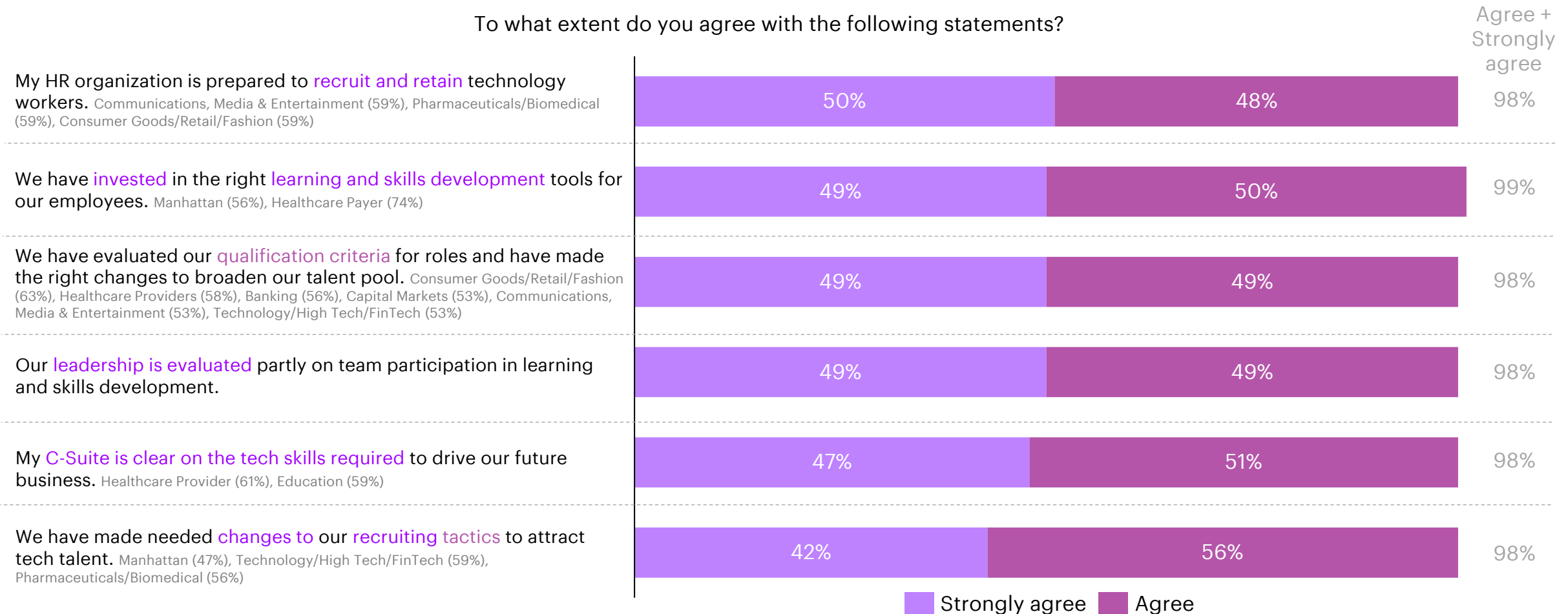
Significantly more organizations within Pharmaceuticals/Biomedical (34%) and Consumer Goods/Retail/Fashion (31%) are very confident that they will be able to secure the tech skills needed in 2023 from the talent pool in New York City. Significantly less Healthcare Providers and State & Local Government organizations feel the same, with 6% and 3% respectively reporting that they are very confident.

Base = Total sample; n=350



Organizations are confident that they have what is necessary to attract, develop and retain the required skill sets.

To what extent do you agree with the following statements?

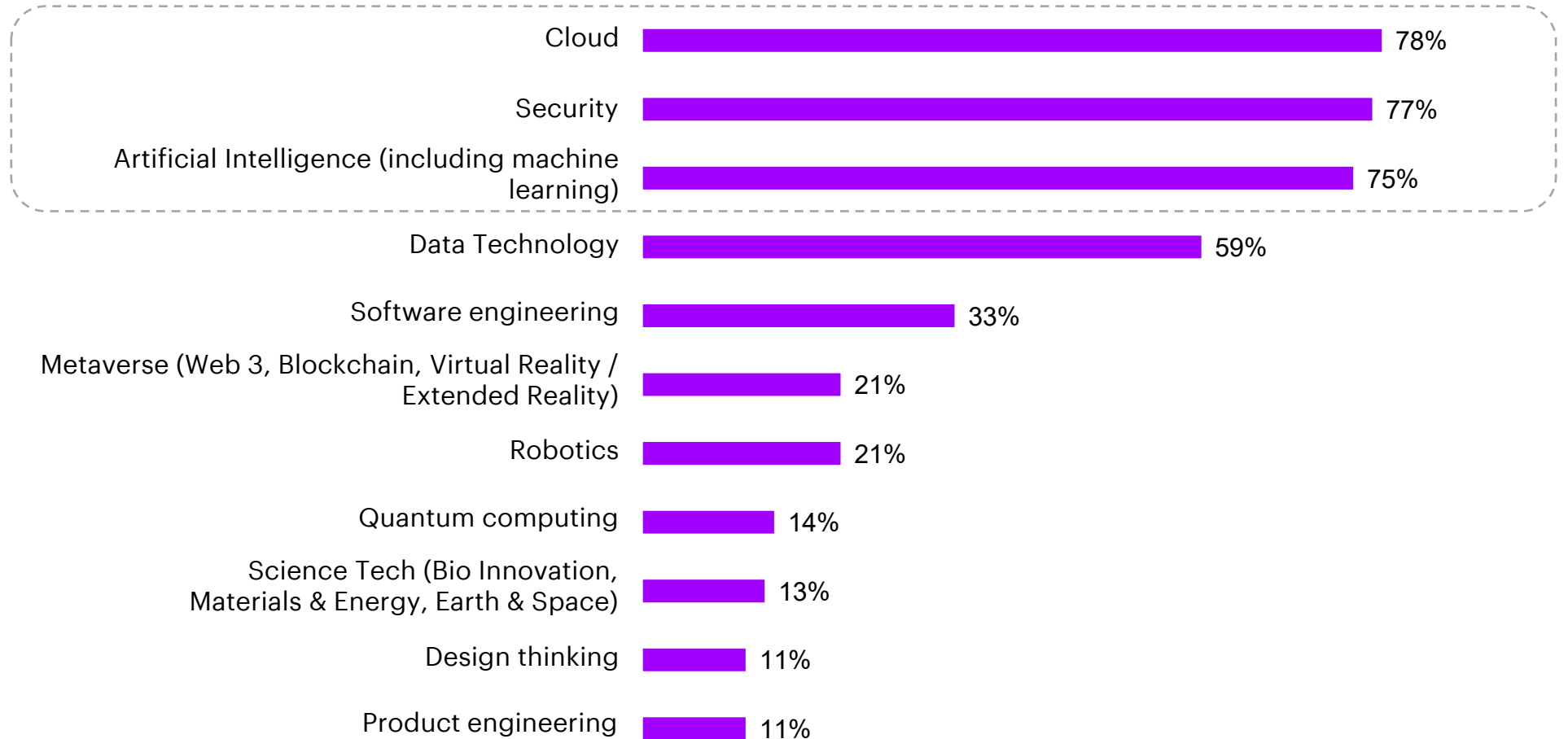


Base = Total sample; n=350

NOTE: Differences highlighted are reflecting STRONGLY AGREE responses.

Most are prioritizing hiring tech employees in 2023 with expertise in Cloud, Security, and AI (including machine learning).

In 2023, my organization's priority is to hire tech employees with the following expertise:
Multiple mention



Base = Total sample; n=350



BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues	BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
Cloud	78%	78%	80%	72%	Cloud	78%	71%	83%	75%
Security	77%	74%	78%	74%	Security	77%	76%	77%	79%
AI	75%	74%	77%	69%	AI	75%	78%	77%	66%
Data Technology	59%	50%	64%	48%	Data Technology	59%	51%	65%	54%
Software engineering	33%	36%	34%	23%	Software engineering	33%	27%	37%	26%
Metaverse	21%	22%	23%	15%	Metaverse	21%	11%	20%	41%
Robotics	21%	20%	22%	15%	Robotics	21%	13%	20%	34%
Quantum Computing	14%	16%	16%	5%	Quantum Computing	14%	8%	17%	16%
Science Tech	13%	14%	14%	8%	Science Tech	13%	9%	15%	11%
Design Thinking	11%	12%	11%	13%	Design Thinking	11%	8%	12%	15%
Product engineering	11%	16%	12%	5%	Product engineering	11%	10%	10%	18%

In 2023, which expertise areas is your organization prioritizing hiring for?

Base = Total sample; n=350

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
Cloud	78%	75%	86%	82%	81%	78%
Security	77%	72%	76%	82%	79%	82%
AI	75%	67%	84%	90%	74%	71%
Data Technology	59%	51%	54%	74%	55%	67%
Software engineering	33%	41%	59%	37%	17%	11%
Metaverse	21%	24%	8%	22%	24%	22%
Robotics	21%	24%	5%	20%	19%	18%
Quantum Computing	14%	19%	8%	10%	10%	18%
Science Tech	13%	14%	16%	15%	17%	4%
Design Thinking	11%	15%	16%	8%	7%	
Product engineering	11%	19%	8%	7%	5%	2%

Significantly more organizations in Queens (84%) and Brooklyn (90%) are prioritizing hiring tech employees with expertise in AI in 2023.

Significantly more organizations in Banking (91%), Capital Markets (91%), Healthcare Payer (90%) are prioritizing hiring tech employees with expertise in Security in 2023.

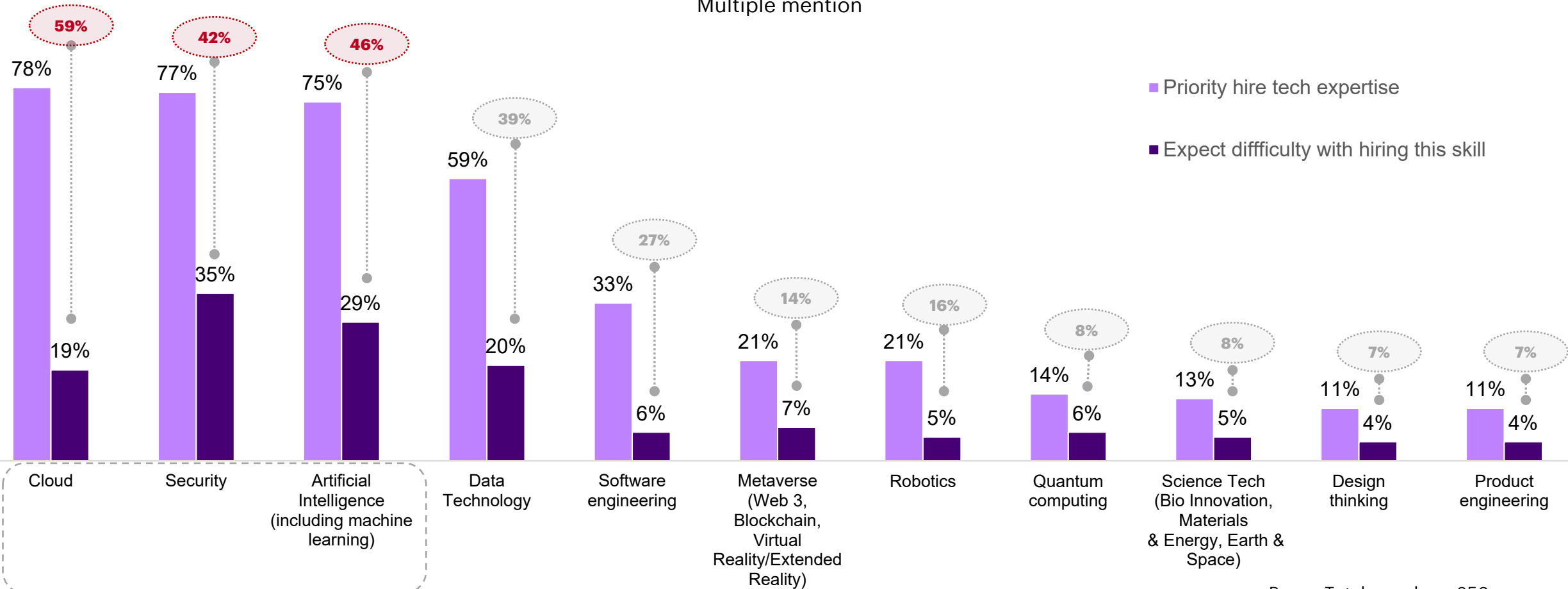
90% of Healthcare Providers are prioritizing employing tech experts in Cloud.

NOTE
Statistically significant differences

BY Industry	Overall	Banking	Capital Markets	Communications, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals / Biomedical	Consumer Goods / Retail / Fashion	Technology / High Tech / FinTech	State & Local Government
Cloud	78%	72%	88%	75%	72%	81%	90%	84%	69%	75%	78%	78%
Security	77%	91%	91%	75%	81%	90%	68%	56%	66%	84%	63%	81%
AI	75%	84%	78%	88%	81%	68%	58%	75%	66%	75%	78%	72%
Data Technology	59%	81%	59%	66%	44%	35%	81%	69%	59%	63%	53%	41%
Software engineering	33%	47%	28%	19%	28%	52%	39%	28%	25%	28%	50%	16%
Metaverse	21%	31%	19%	28%	6%	23%	10%	22%	19%	31%	31%	13%
Robotics	21%	9%	13%	34%	3%	32%	19%	28%	19%	6%	34%	28%
Quantum Computing	14%	9%	13%	6%	3%	32%	19%	25%	19%	6%	19%	6%
Science Tech	13%		16%	13%	13%	3%	26%	13%	34%	9%	16%	
Design Thinking	11%	6%	3%	9%	6%	13%	13%	16%	22%	16%	22%	
Product engineering	11%	9%	6%	9%	3%		23%	16%	28%	13%	19%	

The three areas from which most organizations are prioritizing hiring tech employees in 2023 are also those expected to prove more difficult when hiring.

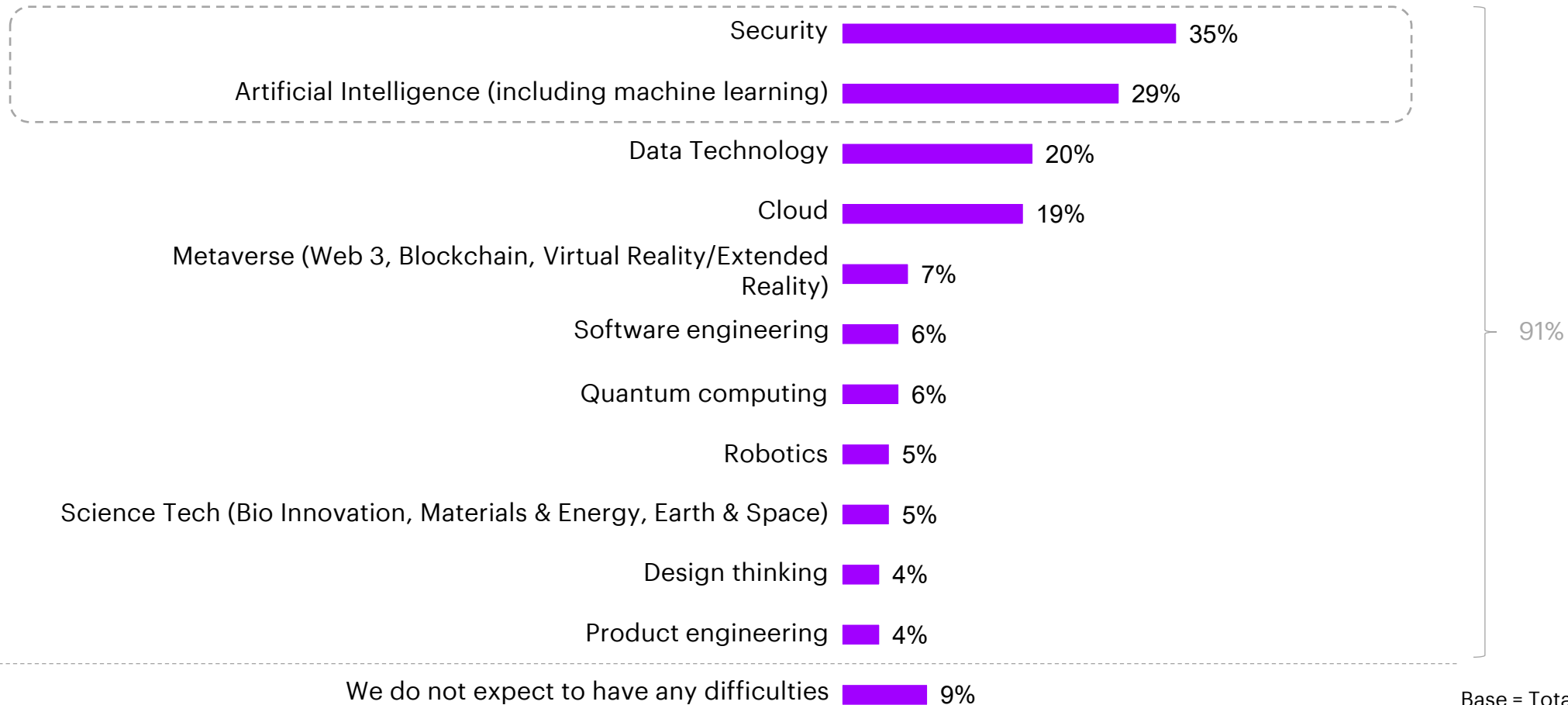
In 2023, my organization's priority is to hire tech employees with the following expertise:
 For which areas of expertise that you selected in the prior question do you expect to have difficulty hiring in 2023?
 Multiple mention



Base = Total sample; n=350

Of the 91% of organizations that expect difficulty hiring tech talent in 2023, they are most concerned about Security (35%) and AI (29%).

For which areas of expertise that you selected in the prior question do you expect to have difficulty hiring in 2023?
Multiple mention.



Base = Total sample; n=350



BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues	BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000	For which areas of expertise that you selected in the prior question do you expect to have difficulty hiring in 2023? Base = Total sample; n=350 NOTE Statistically significant differences
Security	35%	28%	38%	30%	Security	35%	34%	35%	39%	
AI	29%	22%	26%	46%	AI	29%	42%	25%	25%	
Data Technology	20%	20%	21%	18%	Data Technology	20%	13%	21%	26%	
Cloud	19%	18%	18%	23%	Cloud	19%	16%	20%	21%	
Metaverse	7%	10%	8%	3%	Metaverse	7%	3%	6%	16%	
Software engineering	6%	8%	6%	5%	Software engineering	6%	3%	8%	7%	
Quantum Computing	6%	6%	7%		Quantum Computing	6%	1%	8%	7%	
Robotics	5%	2%	6%	3%	Robotics	5%	2%	5%	10%	
Science Tech	5%	6%	5%	3%	Science Tech	5%	4%	6%	2%	
Design Thinking	4%	6%	3%	5%	Design Thinking	4%	2%	3%	10%	
Product engineering	4%	4%	4%	2%	Product engineering	4%	1%	4%	8%	
We do not expect to have any difficulties	9%	6%	10%	7%	We do not expect to have any difficulties	9%	7%	13%		

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
Security	35%	38%	35%	32%	40%	27%
AI	29%	26%	43%	31%	26%	33%
Data Technology	20%	24%	30%	15%	12%	18%
Cloud	19%	18%	16%	23%	17%	20%
Metaverse	7%	12%	5%	6%	5%	7%
Software engineering	6%	8%	8%	5%	10%	
Quantum Computing	6%	8%	5%	6%	2%	4%
Robotics	5%	8%		6%		2%
Science Tech	5%	6%	14%	6%	2%	2%
Design Thinking	4%	6%	5%	2%		
Product engineering	4%	8%	3%	1%		
We do not expect to have any difficulties	9%	4%	5%	17%	5%	13%

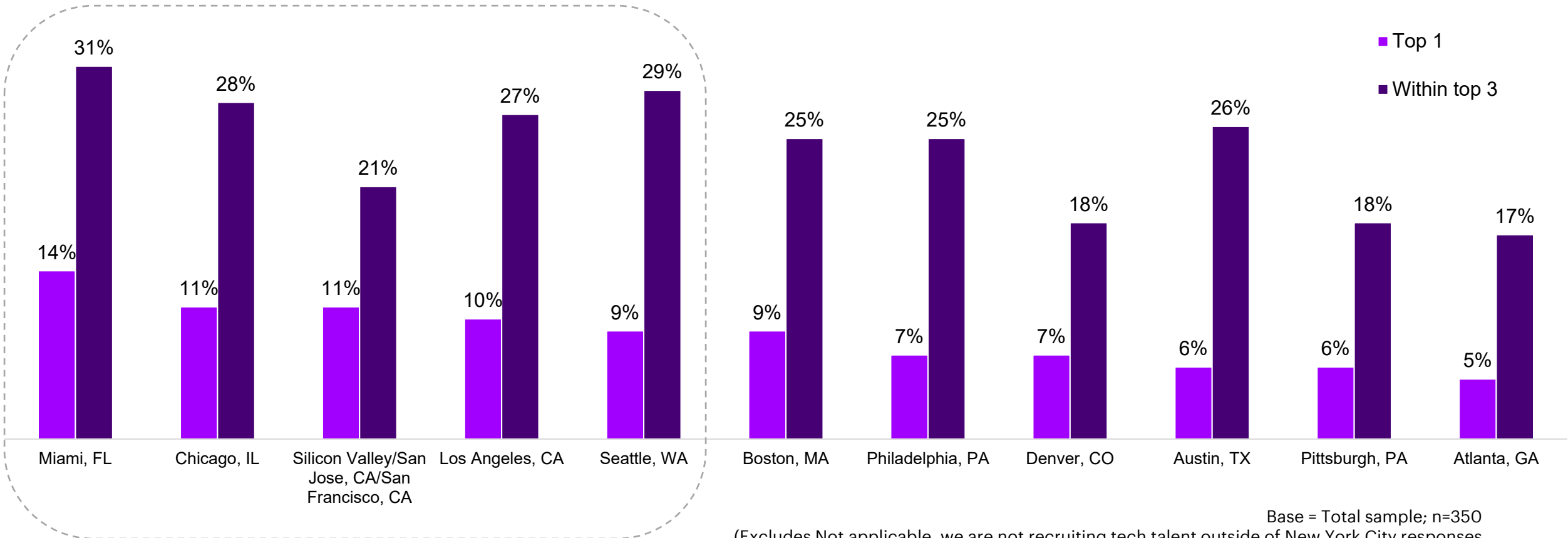
Significantly more organizations with smaller revenues (46%) and fewer NYC located employees (42%) expect greater difficulties with hiring tech experts in AI. Organizations in Queens (43%) also expect more challenges with hiring these experts. Similarly, organizations in Communications, Media & Entertainment (50%) and State & Local Government (50%) also anticipate greater challenges with recruiting experts with AI skills.

Experts with Security skills are considered more difficult to recruit by organizations in Capital Markets (47%), Healthcare Payers (48%), and Healthcare Providers (55%).

BY Industry	Overall	Banking	Capital Markets	Communications, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals / Biomedical	Consumer Goods / Retail / Fashion	Technology / High Tech / FinTech	State & Local Government
Security	35%	31%	47%	34%	44%	48%	55%	22%	41%	19%	28%	22%
AI	29%	16%	28%	50%	34%	19%	10%	28%	28%	28%	28%	50%
Data Technology	20%	22%	9%	19%	13%	6%	45%	44%	22%	19%	19%	3%
Cloud	19%	9%	22%	16%	19%	6%	19%	34%	19%	19%	22%	25%
Metaverse	7%	3%	9%	6%	3%	16%		6%	6%	9%	16%	3%
Software engineering	6%	6%		3%	9%	13%	6%	9%	3%	6%	6%	6%
Quantum Computing	6%	3%	9%			16%	3%	13%	6%	3%	9%	
Robotics	5%		9%	13%		13%	10%			3%	9%	
Science Tech	5%		9%	3%	3%		10%	3%	22%		3%	
Design Thinking	4%			6%	3%	6%		9%	6%	9%	3%	
Product engineering	4%		3%	3%			6%		13%	6%	9%	
We do not expect to have any difficulties	9%	28%		13%	3%	10%	13%	6%	3%	19%	6%	

Of those (95%) who are recruiting tech talent outside of NYC, they are sourcing from Miami, Chicago, Silicon Valley, Los Angeles, and Seattle.

Since 2021, from which of the following cities are you recruiting tech talent outside of New York City?
Rank up to five.



Base = Total sample; n=350
(Excludes Not applicable, we are not recruiting tech talent outside of New York City responses 5%, n=19)



BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues	BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
Miami, FL	14%	12%	15%	10%	Miami, FL	14%	9%	18%	8%
Chicago, IL	11%	6%	13%	8%	Chicago, IL	11%	6%	13%	16%
Silicon Valley/San Jose, CA/San Francisco, CA	11%	14%	9%	13%	Silicon Valley/San Jose, CA/San Francisco, CA	11%	10%	13%	3%
Los Angeles, CA	10%	4%	11%	11%	Los Angeles, CA	10%	13%	10%	8%
Seattle, WA	9%	8%	9%	7%	Seattle, WA	9%	10%	8%	10%
Boston, MA	9%	6%	8%	13%	Boston, MA	9%	13%	7%	8%
Philadelphia, PA	7%	10%	7%	5%	Philadelphia, PA	7%	9%	6%	8%
Denver, CO	7%	10%	6%	10%	Denver, CO	7%	7%	9%	5%
Austin, TX	6%	8%	7%	2%	Austin, TX	6%	4%	6%	10%
Pittsburgh, PA	6%	14%	5%	2%	Pittsburgh, PA	6%	7%	4%	10%
Atlanta, GA	5%	6%	5%	3%	Atlanta, GA	5%	3%	4%	11%
NA, not recruiting tech talent outside NYC	5%	2%	3%	16%	NA, not recruiting tech talent outside NYC	5%	8%	6%	2%

Since 2021, from which of the following cities are you recruiting tech talent outside of New York City?

Base = Total sample; n=350

NOTE Statistically significant differences

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
Miami, FL	14%	8%	8%	20%	14%	22%
Chicago, IL	11%	12%	8%	13%	5%	11%
Silicon Valley/San Jose, CA/San Francisco, CA	11%	10%	32%	7%	19%	2%
Los Angeles, CA	10%	11%	5%	10%	10%	9%
Seattle, WA	9%	9%	19%	9%	10%	7%
Boston, MA	9%	8%	3%	10%	2%	16%
Philadelphia, PA	7%	8%	5%	6%	10%	7%
Denver, CO	7%	10%	8%	5%	7%	4%
Austin, TX	6%	6%	3%	7%		11%
Pittsburgh, PA	6%	8%		3%	7%	2%
Atlanta, GA	5%	6%	5%	5%	2%	2%
NA, not recruiting tech talent outside NYC	5%	4%	3%	6%	14%	7%

Significantly more organizations from Queens (32%) are sourcing talent from Silicon Valley/San Jose, CA/San Francisco, CA.

Talent from Miami is being sourced by organizations from Brooklyn (20%) and The Bronx (22%).

Significantly more organizations in Banking (22%), Capital Markets (22%), Education (25%), and Consumer Goods/Retail/Fashion (19%) are sourcing relevant talent from Silicon Valley/San Jose, CA/San Francisco, CA.

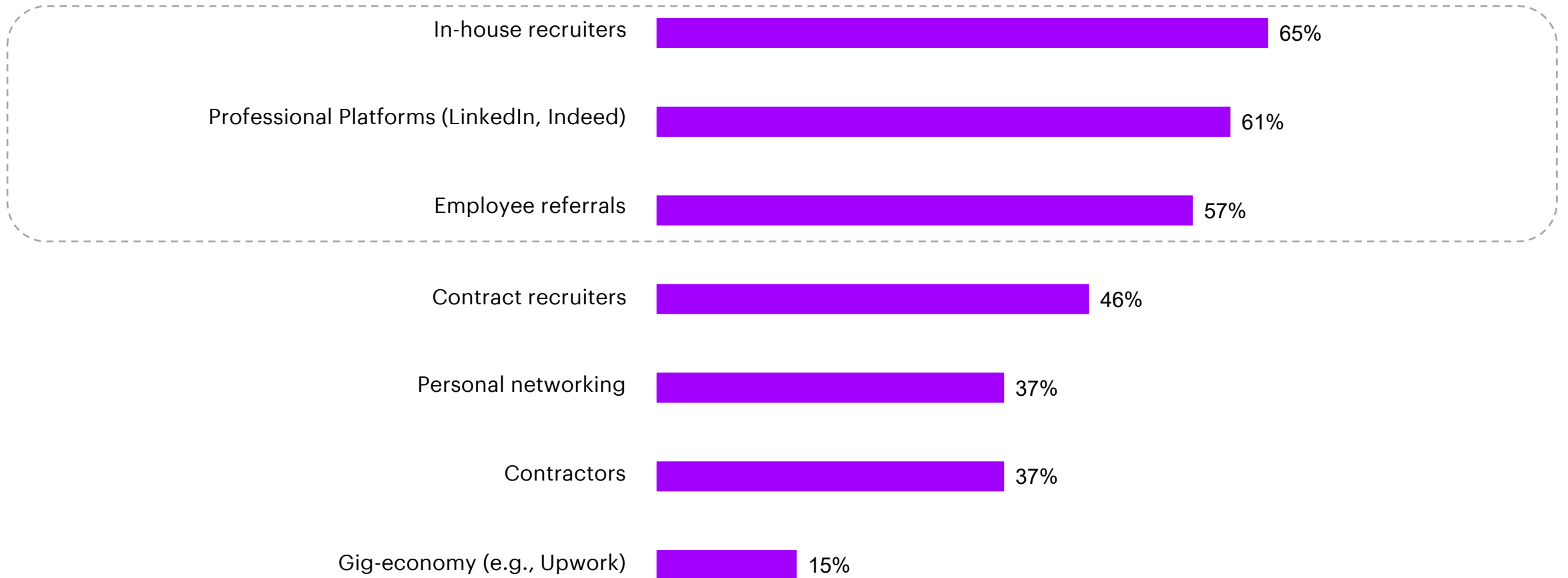
19% of Pharmaceuticals/Biomedical organizations are recruiting skills from Los Angeles, CA.

BY Industry	Overall	Banking	Capital Markets	M&E	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals/ Biomedicals	Cons Goods	Tech/High Tech/FinTech	State & Local Government
Miami, FL	14%	19%	9%	16%	13%	19%	6%	16%	19%	9%	9%	16%
Chicago, IL	11%	3%		13%	6%	13%	16%	9%	9%	19%	25%	13%
Silicon Valley/San Jose, CA/San Francisco, CA	11%	22%	22%	9%	25%	3%		6%	3%	19%	6%	
Los Angeles, CA	10%	9%	3%	9%	9%	16%	10%	6%	19%	9%	6%	16%
Seattle, WA	9%	3%	6%	9%	9%	6%	6%	9%	6%	13%	16%	9%
Boston, MA	9%	6%	9%	16%	6%	3%	13%	9%	9%	3%	6%	13%
Philadelphia, PA	7%	6%	9%	6%	6%	13%	6%	3%	6%	6%	3%	13%
Denver, CO	7%	3%	9%	13%	3%	3%	13%	13%	9%		6%	9%
Austin, TX	6%	13%	13%			6%	3%	16%	6%	13%		
Pittsburgh, PA	6%		9%	3%	6%	13%	3%	3%	6%		13%	6%
Atlanta, GA	5%	3%	6%	6%			10%	3%	3%	6%	9%	6%
NA, not recruiting tech talent outside NYC	5%	13%	3%		16%	3%	13%	6%	3%	3%		

Top 1 responses shown

To help fill their tech talent, over half of organizations leverage in-house recruiters (65%), professional platforms (61%), and employee referrals (57%).

Which of the following would your organization use to help fill your tech talent?
Multiple mention.



Base = Total sample; n=350



BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues
In-house recruiters	65%	56%	69%	54%
Professional Platforms (LinkedIn, Indeed)	61%	62%	62%	52%
Employee referrals	57%	56%	58%	52%
Contract recruiters	46%	48%	46%	44%
Personal networking	37%	30%	39%	34%
Contractors	37%	46%	36%	34%
Gig-economy (e.g., Upwork)	15%	18%	13%	20%

BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
In-house recruiters	65%	61%	69%	57%
Professional Platforms (LinkedIn, Indeed)	61%	44%	65%	72%
Employee referrals	57%	46%	58%	67%
Contract recruiters	46%	45%	44%	54%
Personal networking	37%	35%	37%	39%
Contractors	37%	35%	38%	38%
Gig-economy (e.g., Upwork)	15%	12%	13%	26%

Which of the following would your organization use to help fill your tech talent needs?

Base = Total sample; n=350

NOTE Statistically significant differences

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
In-house recruiters	65%	69%	78%	71%	55%	47%
Professional Platforms (LinkedIn, Indeed)	61%	60%	76%	68%	67%	47%
Employee referrals	57%	58%	62%	55%	55%	62%
Contract recruiters	46%	48%	76%	36%	43%	47%
Personal networking	37%	40%	41%	41%	29%	36%
Contractors	37%	38%	51%	28%	55%	29%
Gig-economy (e.g., Upwork)	15%	21%	11%	10%	19%	7%

Significantly more organizations with larger number of employees (72%) located in NYC would use Professional Platforms (e.g., LinkedIn, Indeed) to help fill their tech talent needs.

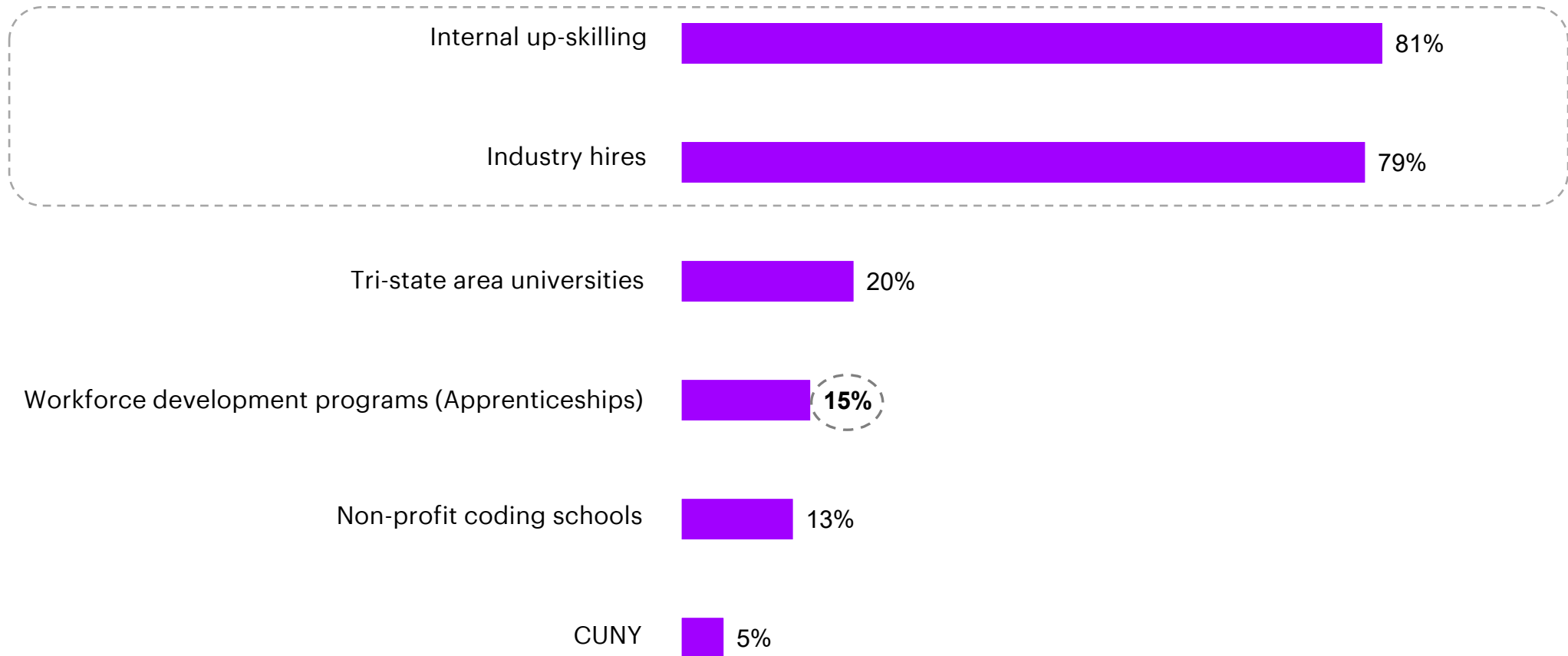
More organizations in Queens are likely to use in-house recruiters (78%), Professional Platforms (76%), and contract recruiters (76%) to fill their recruiting needs.

More organizations in Banking, Capital Markets, Healthcare Payers, Consumer Goods/Retail/Fashion and Technology/High Tech/FinTech are willing to use in-house recruiters to help fill their tech talent gaps. Professional platforms are also likely to be leveraged by more organizations in Banking, Capital Markets, Consumer Goods/Retail/Fashion and Technology/High Tech/FinTech , while Healthcare providers are relying on using employee referrals.

BY Industry	Overall	Banking	Capital Markets	Communication, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals/ Biomedical	Consumer Goods/ Retail /Fashion	Technology/ High Tech/FinTech	State & Local Government
In-house recruiters	65%	72%	78%	66%	66%	77%	48%	59%	53%	75%	78%	38%
Professional Platforms (LinkedIn, Indeed)	61%	84%	75%	59%	59%	61%	42%	63%	53%	75%	69%	25%
Employee referrals	57%	72%	38%	66%	50%	45%	71%	53%	50%	69%	53%	56%
Contract recruiters	46%	53%	47%	34%	47%	58%	39%	44%	50%	47%	50%	38%
Personal networking	37%	38%	38%	41%	25%	35%	42%	34%	34%	53%	38%	28%
Contractors	37%	25%	53%	22%	59%	23%	55%	31%	38%	38%	25%	38%
Gig-economy (e.g., Upwork)	15%	6%	9%	19%	16%	3%	23%	19%	28%	13%	22%	6%

Four out of five organizations leverage internal upskilling and external industry hires to fulfill tech talent needs. Less than one in five source through apprenticeships.

What sources is your organization targeting for your tech talent needs?
Multiple mention.



Base = Total sample; n=350

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BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues
Internal up-skilling	81%	84%	81%	80%
Industry hires	79%	76%	80%	79%
Tri-state area universities	20%	24%	20%	15%
Workforce development programs (Apprenticeships)	15%	14%	15%	15%
Non-profit coding schools	13%	16%	14%	8%
CUNY	5%		5%	10%

BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
Internal up-skilling	81%	82%	83%	75%
Industry hires	79%	76%	83%	70%
Tri-state area universities	20%	18%	20%	23%
Workforce development programs (Apprenticeships)	15%	9%	16%	21%
Non-profit coding schools	13%	9%	13%	23%
CUNY	5%	7%	5%	5%

What sources is your organization targeting for your tech talent needs?

Base = Total sample; n=350

NOTE Statistically significant differences

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
Internal up-skilling	81%	81%	81%	83%	86%	76%
Industry hires	79%	74%	84%	86%	83%	80%
Tri-state area universities	20%	29%	14%	18%	7%	7%
Workforce development programs (Apprenticeships)	15%	20%	11%	13%	12%	16%
Non-profit coding schools	13%	19%	16%	15%	2%	2%
CUNY	5%	8%	22%	3%	2%	

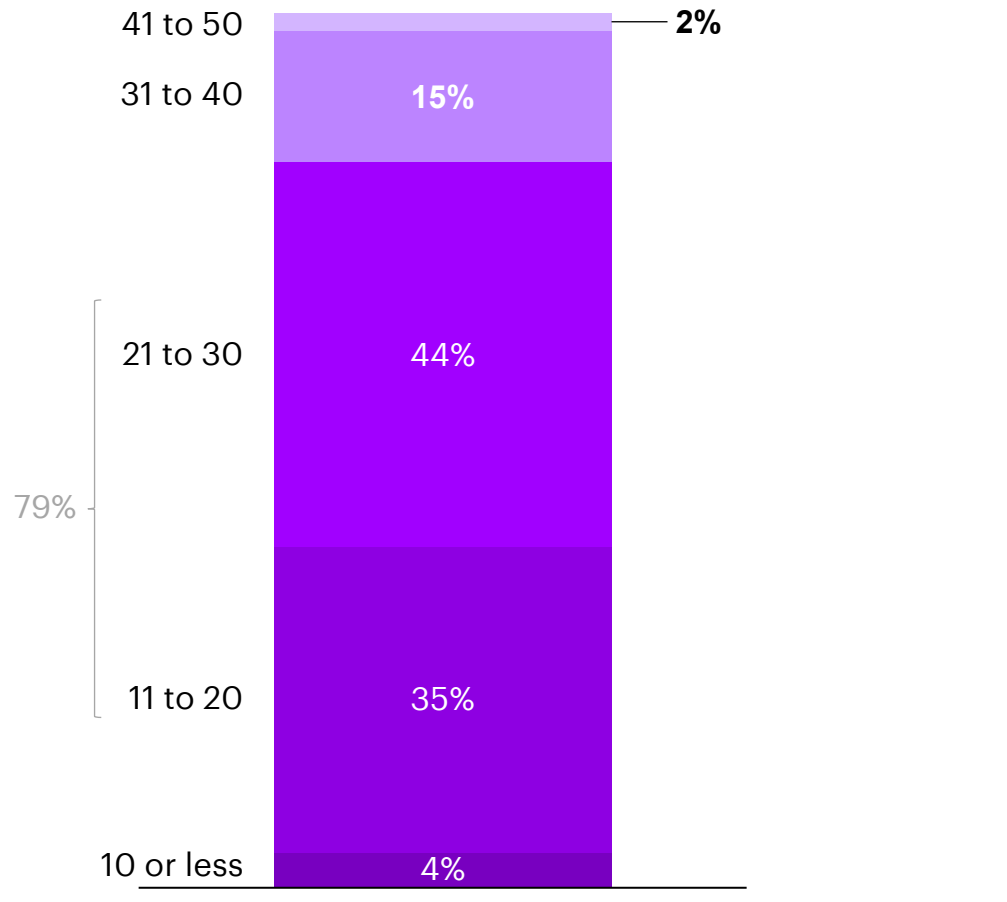
Significantly more organizations in Banking (94%) and Consumer Goods/Retail/Fashion (91%) are targeting upskilling internally for their tech talent needs.

91% of organizations in Communications, Media & Entertainment are also recruiting industry hires.

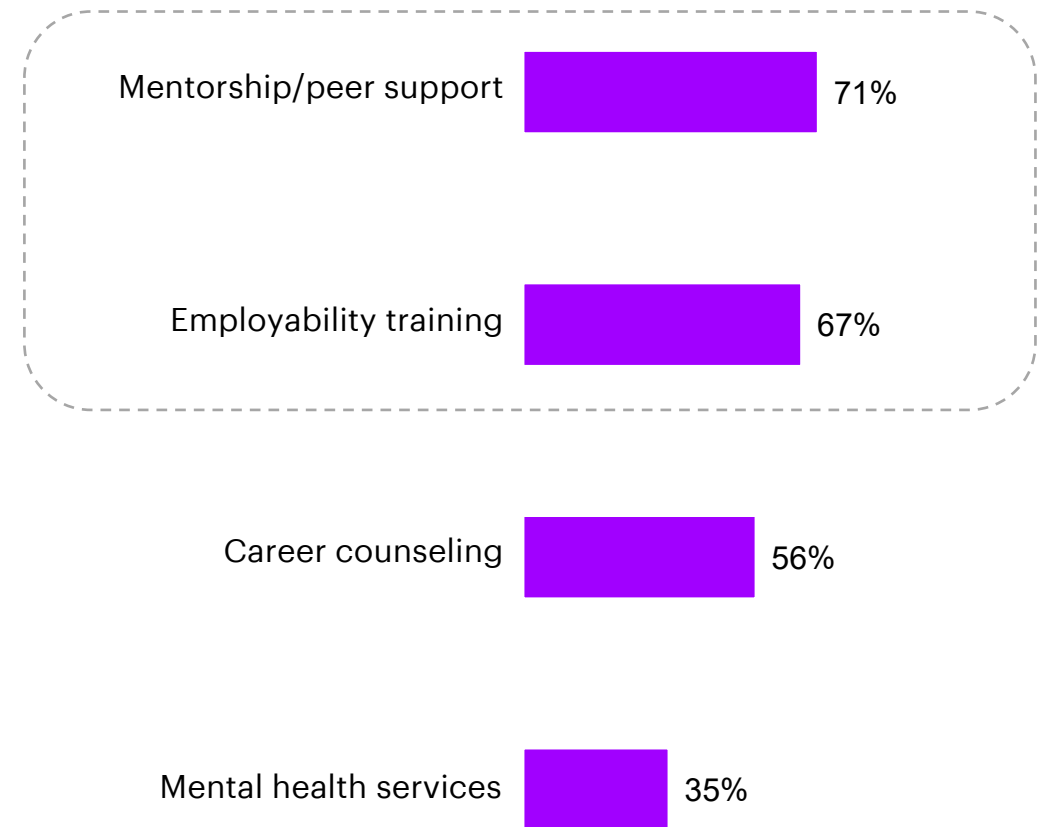
BY Industry	Overall	Banking	Capital Markets	Communications, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals/ Biomedical	Consumer Goods/ Retail/Fashion	Technology/ High Tech/FinTech	State & Local Government
Internal up-skilling	81%	94%	78%	81%	84%	84%	58%	81%	81%	91%	84%	75%
Industry hires	79%	81%	88%	91%	75%	74%	84%	84%	69%	78%	72%	75%
Tri-state area universities	20%	16%	19%	19%	9%	16%	48%	25%	31%	25%	9%	
Workforce development programs (Apprenticeships)	15%	9%	3%		6%		55%	22%	28%	9%	25%	6%
Non-profit coding schools	13%	6%	9%	9%	9%	13%	26%	22%	16%	19%	19%	
CUNY	5%			16%	6%	3%	6%	6%	6%	9%	3%	

Of those who leverage apprenticeships for their tech talent needs, 79% typically host between 11 and 30 apprentices per year. Most also offer their apprentices mentorship/peer support and employability training.

How many apprentices does your organization typically host per year?



Which of the following support services do your apprentices receive?
Multiple mention.



Base = Organizations who are leveraging apprenticeships for their tech talent needs, n=52



BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues
New technology adoption	63%	54%	66%	62%
Winning new business/clients	56%	52%	59%	48%
Shifts in industry/market trends	46%	56%	47%	34%
Employee departures	43%	48%	43%	39%

BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
New technology adoption	63%	62%	64%	66%
Winning new business/clients	56%	49%	59%	59%
Shifts in industry/market trends	46%	48%	47%	41%
Employee departures	43%	37%	47%	38%

What typically triggers reskilling efforts in your organization?

Base = Total sample; n=350

NOTE Statistically significant differences

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
New technology adoption	63%	64%	78%	59%	76%	53%
Winning new business/clients	56%	60%	62%	61%	50%	42%
Shifts in industry/market trends	46%	49%	62%	48%	43%	31%
Employee departures	43%	47%	49%	41%	31%	47%

Significantly more re-skilling efforts are triggered by the adoption of new technology for organizations in Queens (78%), Staten Island (76%). Shifts in industry/market trends is also reported to be a cause for re-skilling, for 62% of organizations in Queens.

When considering industry variations, the adoption of new technology is a catalyst for skills development for more organizations in Banking (81%) and Healthcare Providers (74%), while winning new business or clients is a trigger for more organizations in Capital Markets (78%), Communications, Media & Entertainment (69%), and Healthcare providers (71%). Shifts in industry or market trends result in the need for reskilling efforts for 63% of Pharmaceuticals/Biomedical organizations.

BY Industry	Overall	Banking	Capital Markets	Communications, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals/Biomedical	Consumer Goods/Retail/Fashion	Technology/High Tech/FinTech	State & Local Government
New technology adoption	63%	81%	63%	50%	69%	61%	74%	66%	59%	66%	69%	41%
Winning new business/clients	56%	53%	78%	69%	44%	52%	71%	50%	47%	56%	53%	47%
Shifts in industry/market trends	46%	53%	50%	44%	59%	58%	42%	41%	63%	44%	28%	25%
Employee departures	43%	38%	25%	44%	38%	45%	48%	50%	38%	44%	53%	50%



Which of the following are you using to reskill tech employees in your organization?

Base = Total sample; n=350

NOTE Statistically significant differences

BY Revenue	Overall	Larger revenues	Medium revenues	Smaller revenues
On-the-job training	74%	78%	76%	62%
Internal courses	53%	58%	56%	38%
External courses, e.g., at tech academies	39%	56%	38%	31%
Technical apprenticeships	37%	42%	34%	41%

BY # NYC Located Employees	Overall	< 500	501 - 5000	>5000
On-the-job training	74%	66%	80%	66%
Internal courses	53%	44%	58%	51%
External courses, e.g., at tech academies	39%	33%	40%	48%
Technical apprenticeships	37%	42%	33%	41%

BY Borough	Overall	Manhattan	Queens	Brooklyn	Staten Island	The Bronx
On-the-job training	74%	76%	89%	77%	74%	51%
Internal courses	53%	58%	70%	49%	48%	36%
External courses, e.g., at tech academies	39%	48%	49%	32%	45%	22%
Technical apprenticeships	37%	42%	19%	28%	40%	47%

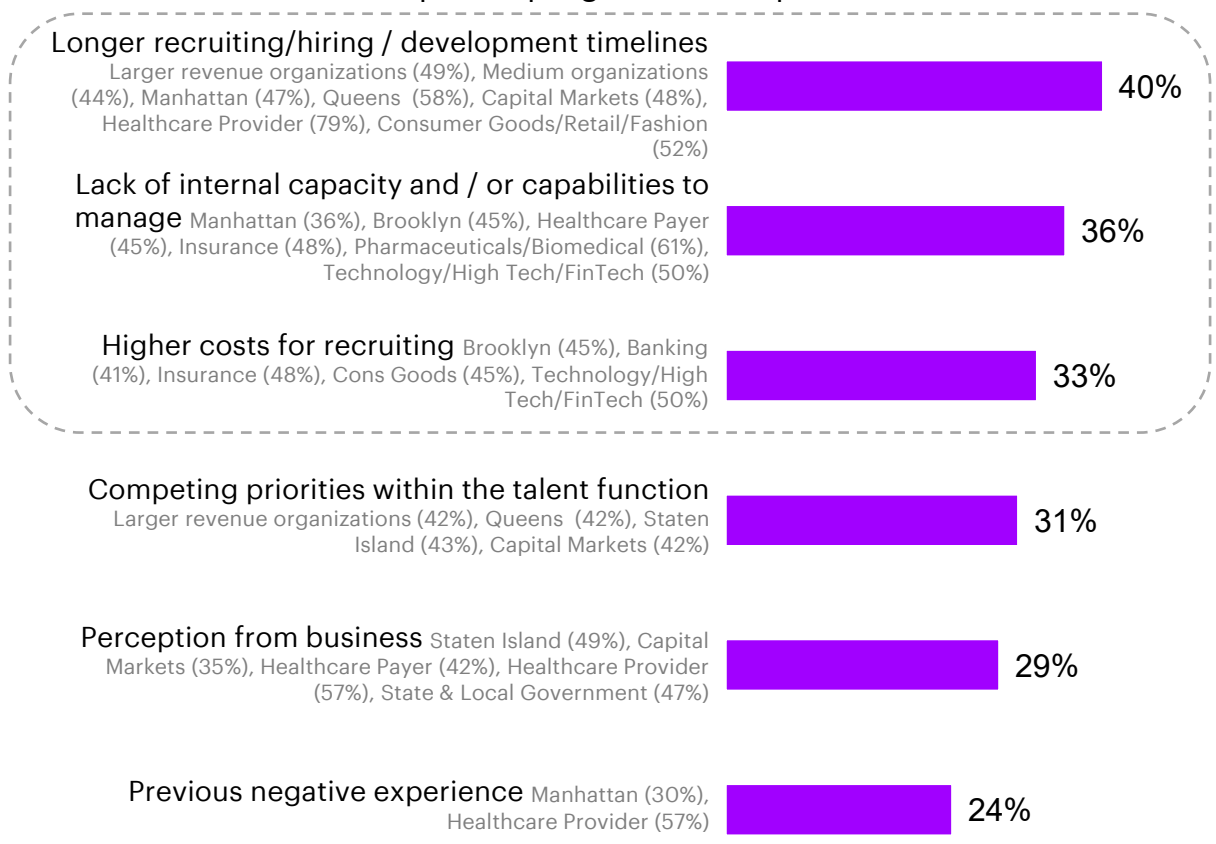
Significantly more organizations in Queens are leveraging on-the-job training (89%) internal courses (70%) and external courses (49%) to reskill their tech employees.

Organizations in Banking (94%), Capital Markets (81%), Healthcare Payers (81%), and Technology/High Tech/FinTech (81%) are using on-the-job training to reskill their tech employees. More of those in Communications, Media & Entertainment (63%) and Healthcare Providers (65%) are using internal courses.

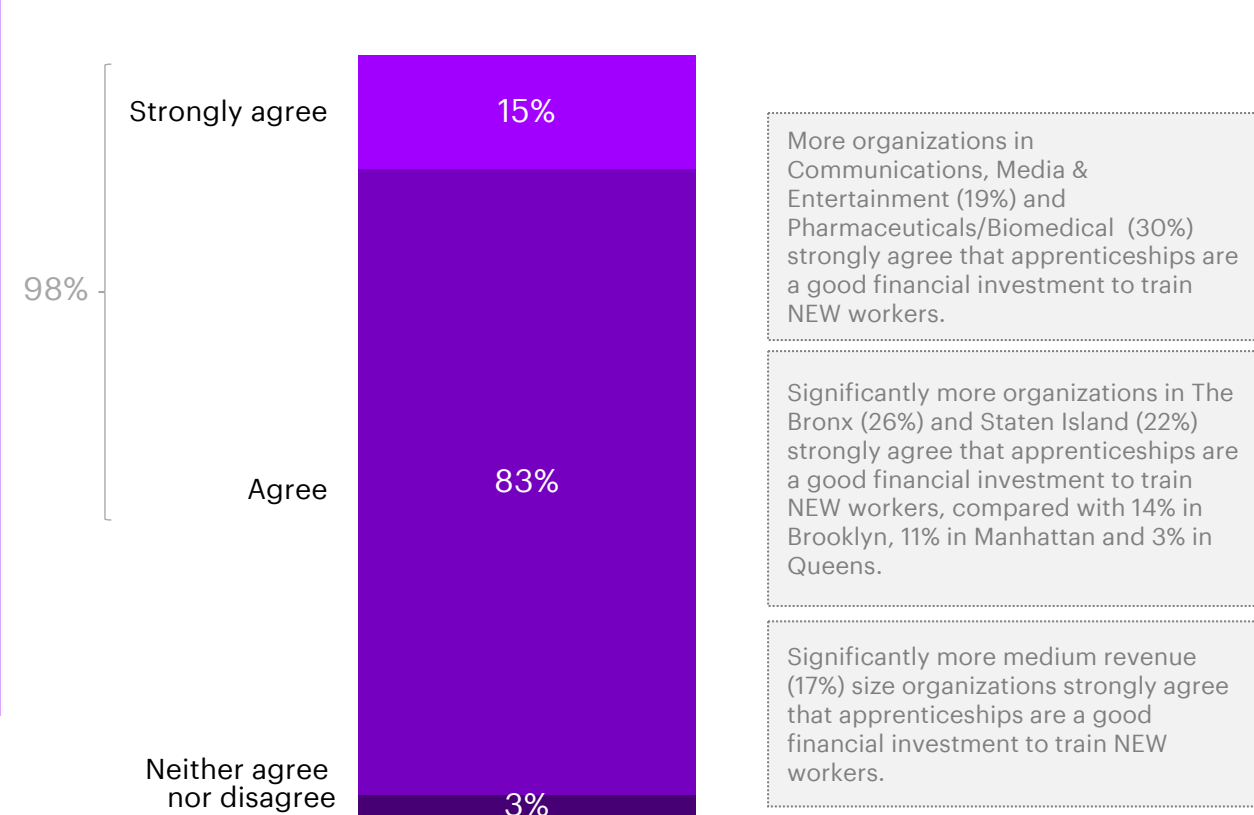
BY Industry	Overall	Banking	Capital Markets	Communications, Media & Entertainment	Education	Healthcare Payer	Healthcare Provider	Insurance	Pharmaceuticals/ Biomedical	Consumer Goods/ Retail/Fashion	Technology/ High Tech/FinTech	State & Local Government
On-the-job training	74%	94%	81%	78%	72%	81%	74%	72%	59%	72%	81%	50%
Internal courses	53%	53%	53%	63%	59%	55%	65%	47%	53%	50%	56%	28%
External courses, e.g., at tech academies	39%	19%	56%	28%	44%	52%	48%	38%	34%	47%	44%	25%
Technical apprenticeships	37%	28%	28%	28%	31%	32%	52%	44%	53%	31%	25%	50%

Of those who do not leverage apprenticeships, reasons for this include the associated longer recruiting/hiring/development timelines and lack of internal capacity/capabilities to manage the process. However, despite not leveraging these, 98% still recognize that they are a good financial investment.

What barriers keep your organization from working with workforce development programs? Multiple mention.



Rating of agreement/disagreement level with statement "Apprenticeships are a good financial investment for my business to train NEW workers."

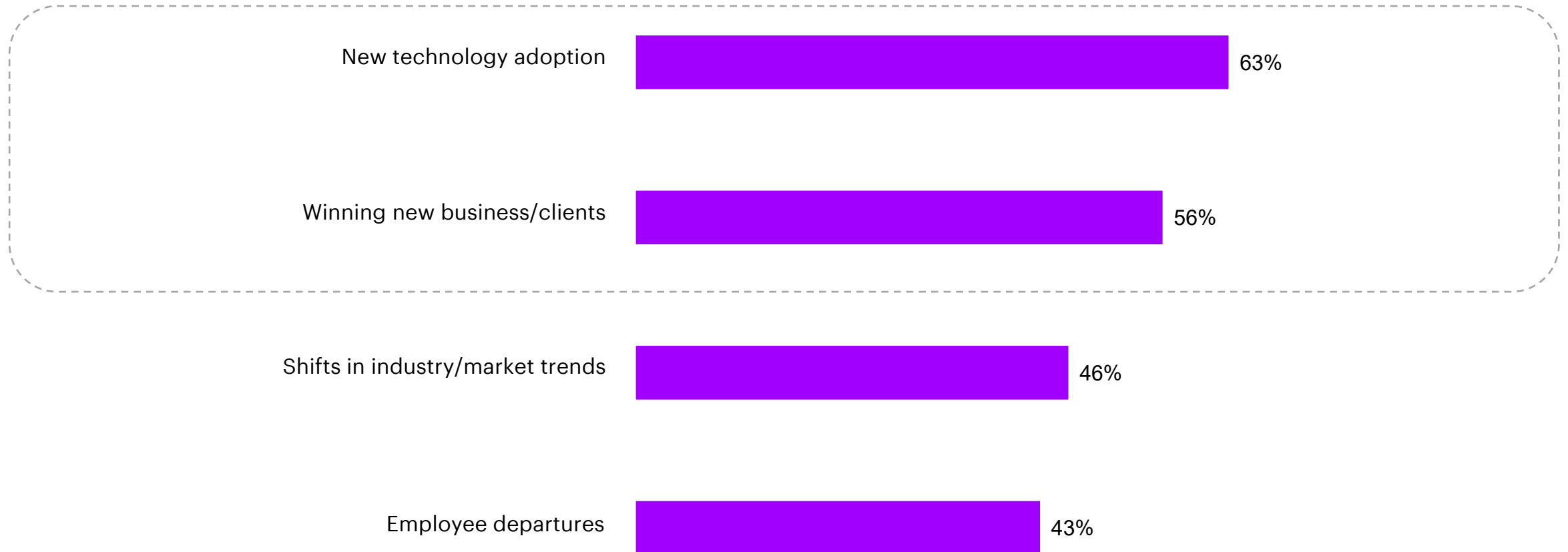


Base = Organizations who are not leveraging apprenticeships for their tech talent needs, n=298



Over half confirm that new technology adoption and winning new business/clients are typically responsible for triggering reskilling efforts within their organization. Less result from employee departures.

What typically triggers reskilling efforts in your organization?
Multiple mention.

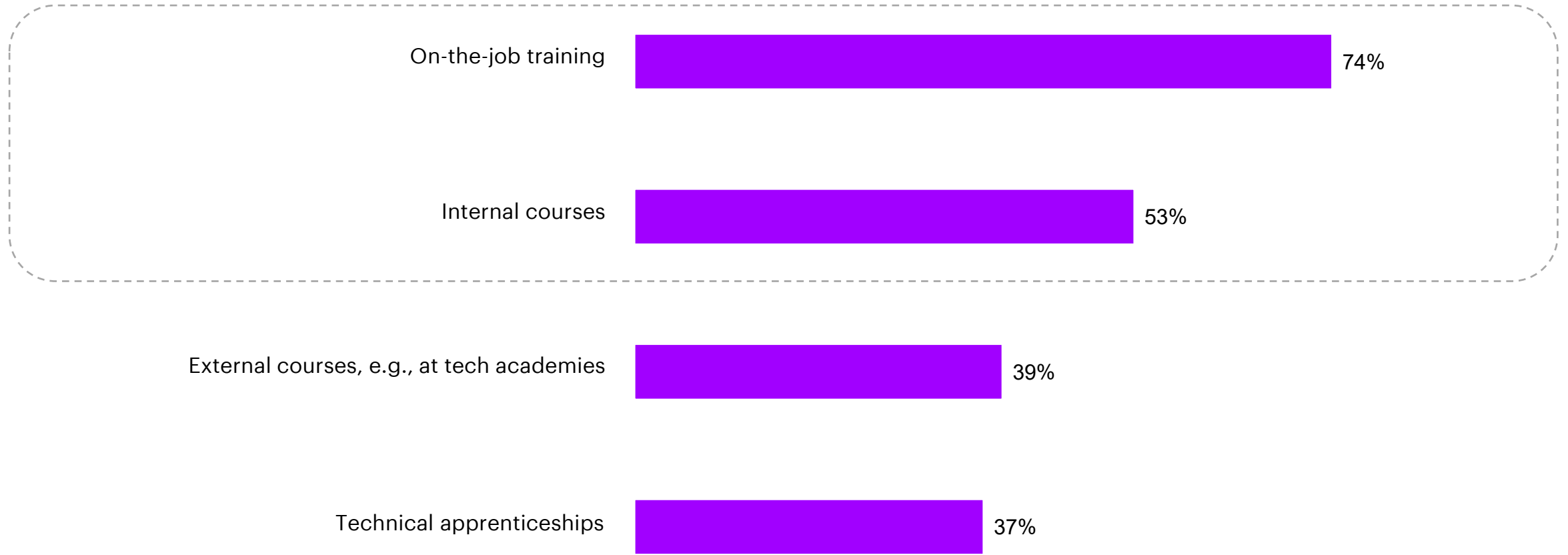


Base = Total sample; n=350



Around three quarters (74%) use on-the-job training to reskill tech employees and one in two leverage internal courses.

Which of the following are you using to reskill tech employees in your organization?
Multiple mention.



Base = Total sample; n=350

