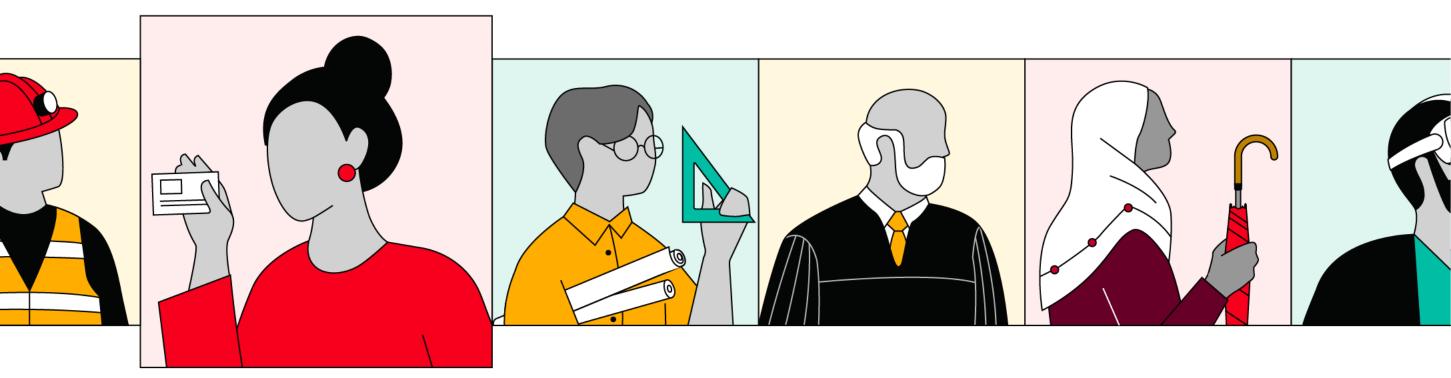


Professional, scientific, and technical services



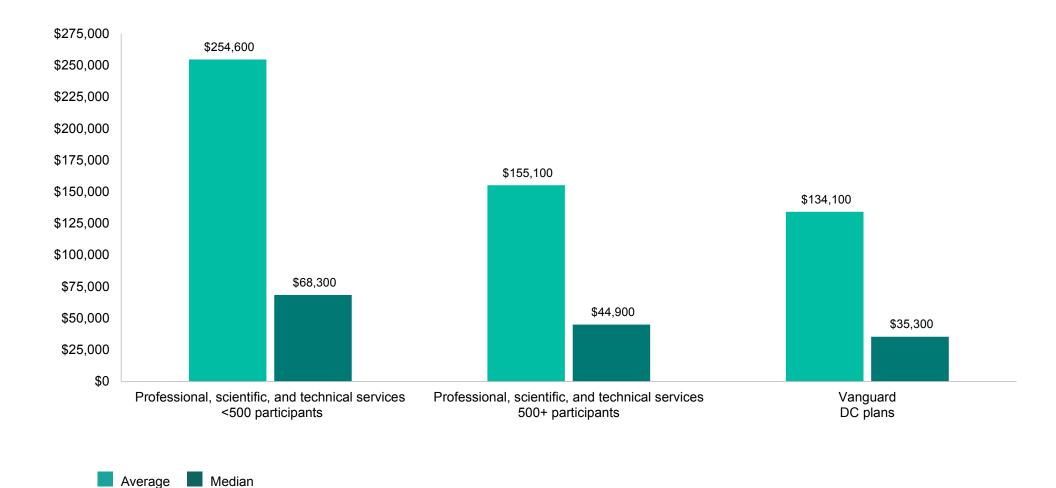
Benchmark population

	Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Number of plans	57	104	1,550
Number of participants	10,519	698,313	4.8 million
Average number of participants	185	6,715	3,100
Median number of participants	139	2,249	610
Amount of assets	\$2.7 billion	\$108.3 billion	\$644.7 billion
Average assets	\$47 million	\$1 billion	\$418.9 million
Median assets	\$35.2 million	\$281.7 million	\$79.5 million

The professional, scientific, and technical services industry is defined by NAICS (North American Industry Classification System) subsector 54.

Source: Vanguard, as of December 31, 2023.

Participant balances

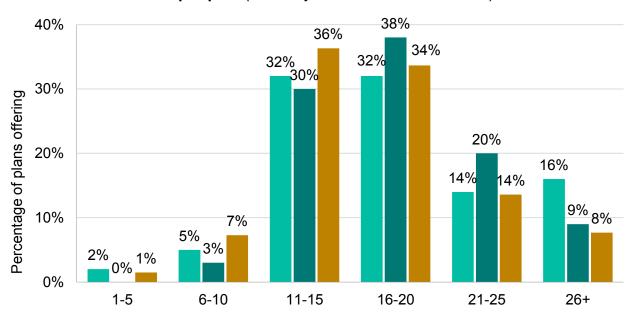


Source: Vanguard, as of December 31, 2023.

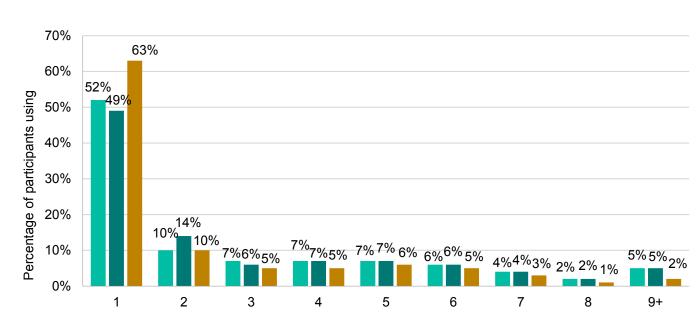
Bars in chart may not align precisely with percentages due to rounding.

Number of fund options offered and used





Funds used per participant



	Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Average funds offered	19.5	20.7	17.5
Median funds offered	17	18	16
Average funds used	2.9	3.0	2.3
Median funds used	1	2	1

Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

Types of investment options offered and used*

		Professional, scientific, and technical services <500 participants		Professional, scientific, and technical services 500+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Cash	100%	15%	100%	14%	99%	11%
Money market	75%	11%	68%	7%	71%	6%
Stable value/GIC	68%	12%	74%	11%	68%	10%
Bond funds	100%	23%	100%	22%	99%	17%
Active	82%	13%	94%	7%	80%	7%
Index	96%	16%	94%	18%	90%	14%
Inflation-protected securities	44%	6%	56%	4%	35%	3%
Multisector	5%	2%	11%	3%	7%	2%
High-yield	28%	7%	23%	3%	18%	4%
International	25%	3%	21%	6%	19%	5%
Emerging markets	0%	0%	3%	0%	1%	2%
Balanced funds	98%	78%	100%	86%	99%	86%
Traditional balanced	70%	17%	48%	9%	63%	13%
Target-risk	0%	0%	0%	0%	2%	1%
Target-date	93%	73%	99%	85%	96%	83%
Company stock	4%	17%	8%	47%	8%	23%
Self-directed brokerage	11%	3%	34%	1%	21%	1%

^{*} Among participants offered the option. Source: Vanguard, as of December 31, 2023.

Types of investment options offered and used* (continued)

		Professional, scientific, and technical services <500 participants		Professional, scientific, and technical services 500+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Equity funds	100%	44%	100%	40%	99%	31%
Domestic equity funds	100%	43%	100%	39%	99%	30%
Large-cap index	98%	33%	100%	32%	99%	14%
Large-cap active	93%	24%	94%	19%	89%	26%
Large-cap value	89%	15%	89%	10%	87%	9%
Large-cap growth	84%	20%	92%	17%	90%	13%
Large-cap blend	100%	33%	100%	32%	99%	24%
Mid-cap index	91%	16%	91%	16%	84%	14%
Mid-cap active	58%	13%	64%	11%	52%	7%
Small-cap index	75%	16%	58%	15%	63%	11%
Small-cap active	63%	10%	79%	8%	64%	7%
Socially responsible	26%	6%	31%	5%	17%	5%
International equity funds	98%	24%	100%	24%	97%	19%
Index international	81%	17%	95%	18%	81%	14%
Active international	81%	14%	95%	11%	83%	9%
Emerging markets	35%	9%	38%	7%	35%	9%
Global equity funds	30%	11%	16%	6%	16%	3%

^{*} Among participants offered the option. Source: Vanguard, as of December 31, 2023.

Types of investment options offered and used* (continued)

		Professional, scientific, and technical services <500 participants		Professional, scientific, and technical services 500+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Sector funds	44%	11%	45%	8%	39%	6%
REIT	40%	9%	41%	6%	33%	5%
Health care	9%	14%	5%	5%	8%	6%
Energy	9%	15%	5%	3%	4%	4%
Precious metals	4%	4%	6%	1%	2%	2%
Technology	4%	10%	5%	4%	3%	5%
Utilities	0%	0%	4%	1%	1%	2%
Natural resources	0%	0%	2%	1%	1%	4%
Financials	0%	0%	2%	0%	<0.5%	<0.5%
Communications	0%	0%	2%	0%	<0.5%	1%
Consumer	2%	4%	2%	1%	<0.5%	1%
Industrials	0%	0%	2%	0%	<0.5%	<0.5%

^{*} Among participants offered the option. Source: Vanguard, as of December 31, 2023.

Target-date fund availability and use

		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Percentage of plans offering		93%	99%	96%
Plan assets invested*		32%	39%	41%
	<10%	2%	0%	5%
	10%–19%	17%	3%	8%
Develope of plan acceta*	20%–29%	26%	13%	17%
Percentage of plan assets*	30%–39%	28%	19%	20%
	40%–49%	8%	23%	18%
	50%+	19%	42%	32%
Percentage of participants using*		73%	85%	83%
Percentage of participant assets**		57%	54%	62%
	1%–24%	12%	15%	10%
Percentage of participant assets in	25%–49%	10%	12%	8%
target-date funds**	50%-74%	6%	9%	4%
	75%–99%	5%	6%	6%
	100%	68%	58%	72%
	One target-date fund only	64%	54%	70%
	One target-date fund plus other funds	28%	34%	24%
Percentage of participants owning**	Two or more target-date funds only	3%	4%	2%
	Two or more target-date funds plus other funds	5%	8%	4%

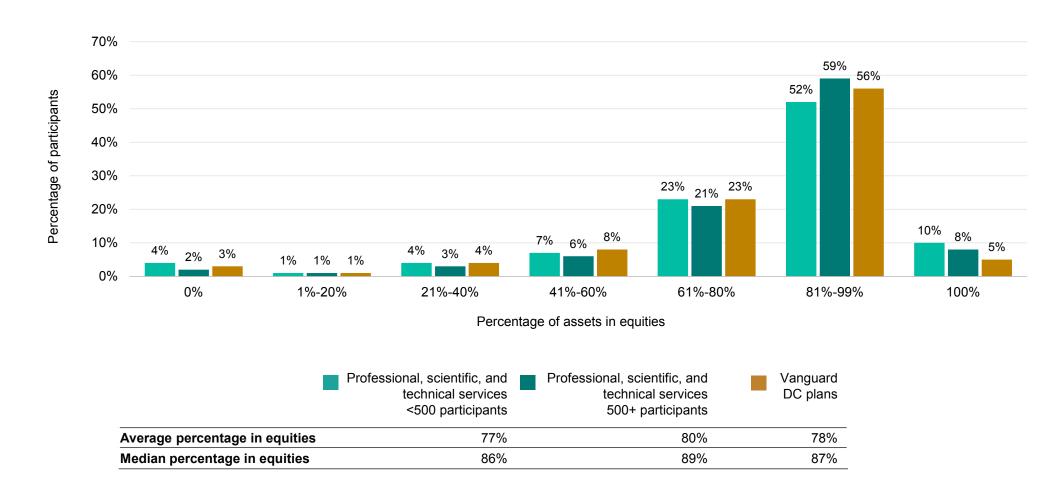
Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

^{*} Among plans offering target-date options.

^{**} Among participants owning target-date options.

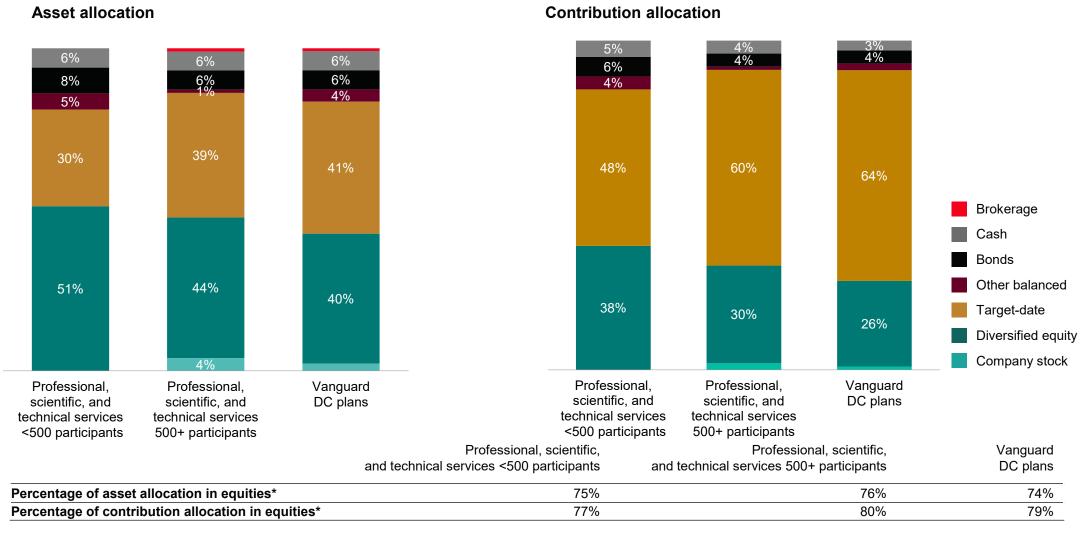
Participant equity exposure



Source: Vanguard, as of December 31, 2023.

Bars in chart may not align precisely with percentages due to rounding.

Asset and contribution allocations



^{*} Equities include company stock, diversified equity, and the equity portion of balanced funds. Source: Vanguard, as of December 31, 2023.

Bars in the chart may not align precisely with percentages due to rounding.

Participants with professionally managed allocations

		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
	Single target-date fund	45%	45%	58%
All nouticinants	Single balanced fund	1%	0%	1%
All participants	Managed account program	4%	7%	7%
	Total	50%	52%	66%
	Single target-date fund	78%	69%	86%
New plan entrants during the year	Single balanced fund	1%	0%	1%
	Managed account program	2%	3%	2%
	Total	81%	72%	89%

Source: Vanguard, as of December 31, 2023.

Automatic enrollment options*

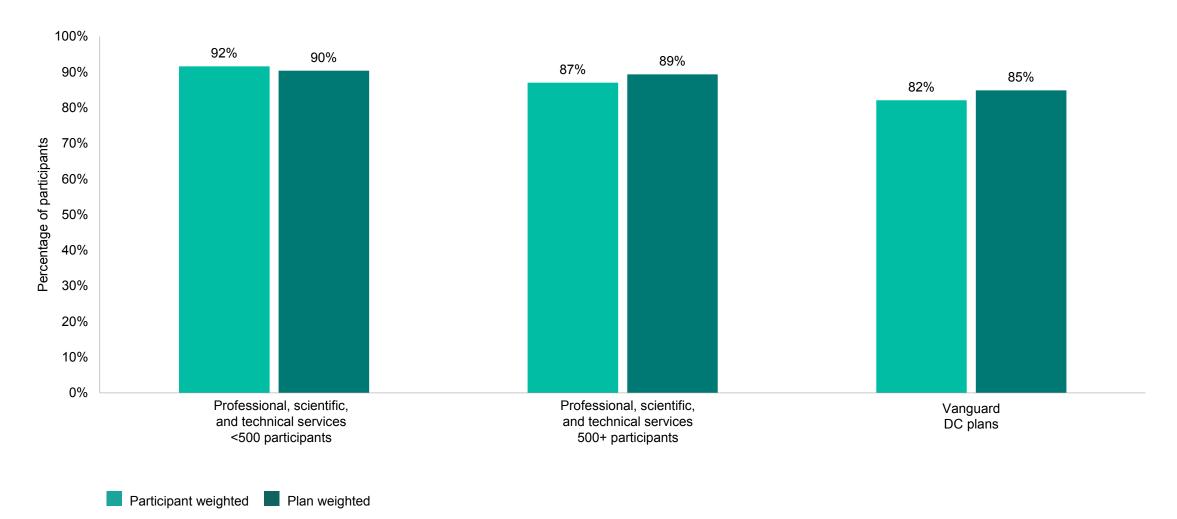
		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Automatic enrollment*	Number of plans	23	69	842
Automatic emoniment	Percentage of plans	43%	71%	59%_
	1 percent	0%	3%	2%
	2 percent	4%	4%	5%
Default automatic enrollment rate	3 percent	22%	33%	33%
Default automatic emoninent rate	4 percent	30%	13%	14%
	5 percent	13%	13%	17%
	6 percent or more	30%	33%	29%
	1 percent	52%	65%	67%
Default automatic increase rate	2 percent	13%	3%	2%
Delaut automatio morease rate	Voluntary election	13%	30%	25%
	Service feature not offered	22%	1%	6%_
	<6 percent	0%	0%	2%
	6 to 9 percent	20%	6%	17%
Default automatic increase con	10 to 14 percent	53%	57%	49%
Default automatic increase cap	15 to 19 percent	13%	28%	22%
	20+ percent	7%	6%	6%
	No cap	7%	2%	4%
	Target-date fund	87%	100%	98%
Default fund	Other balanced fund	0%	0%	1%
	Money market or stable value fund	9%	0%	1%

Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

^{*} Limited to plans using Vanguard's automatic enrollment service.

Participation rates



Participant deferral rates

		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Deferral rates	Average	8.6%	8.0%	7.4%
Deterrativates	Median	6.8%	7.0%	6.2%
	<4.0%	13%	20%	24%
	4.0%–6.0%	20%	19%	20%
Distribution of rates	6.1%–9.9%	39%	34%	32%
	10.0%–14.9%	18%	19%	17%
	15.0%+	10%	8%	7%

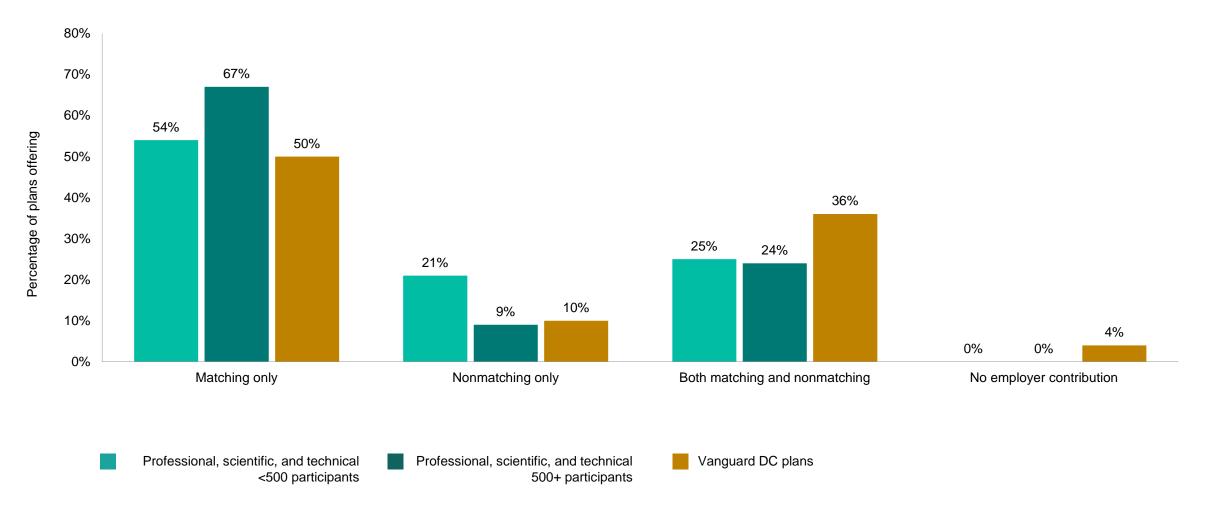
Source: Vanguard active plans with nondiscrimination testing completed during the past two years.

Aggregate participant and employer contribution rates

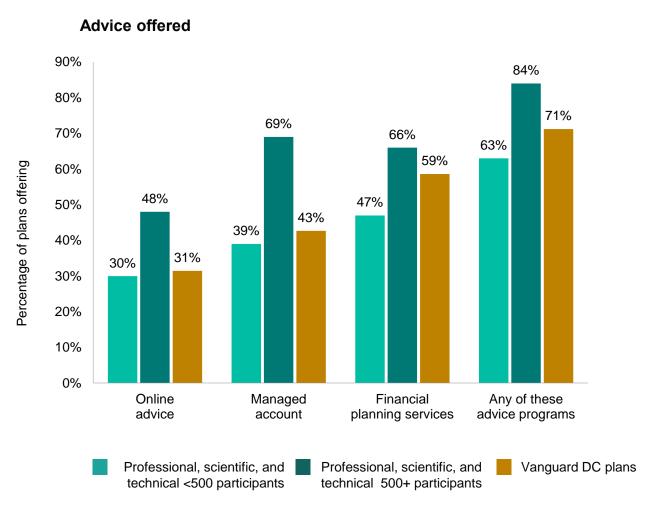
		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Total saving rate	Average	13%	12%	12%
	Median	12%	11%	11%
Distribution of rates	<5.0%	7%	10%	14%
	5.0%-8.9%	18%	25%	20%
	9.0%–11.9%	22%	23%	21%
	12.0%–14.9%	20%	18%	20%
	15.0%+	33%	24%	25%

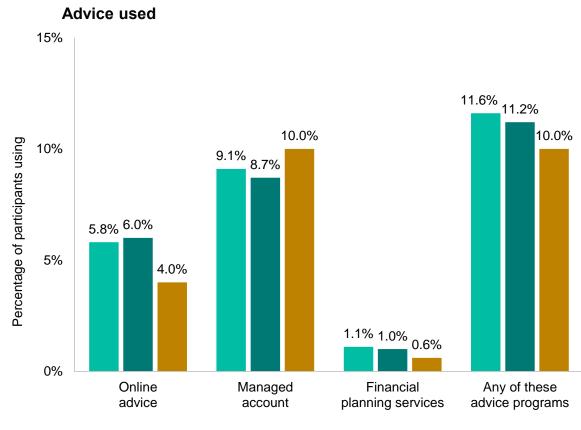
Source: Vanguard active plans with nondiscrimination testing completed during the past two years.

Types of employer contributions



Advice services



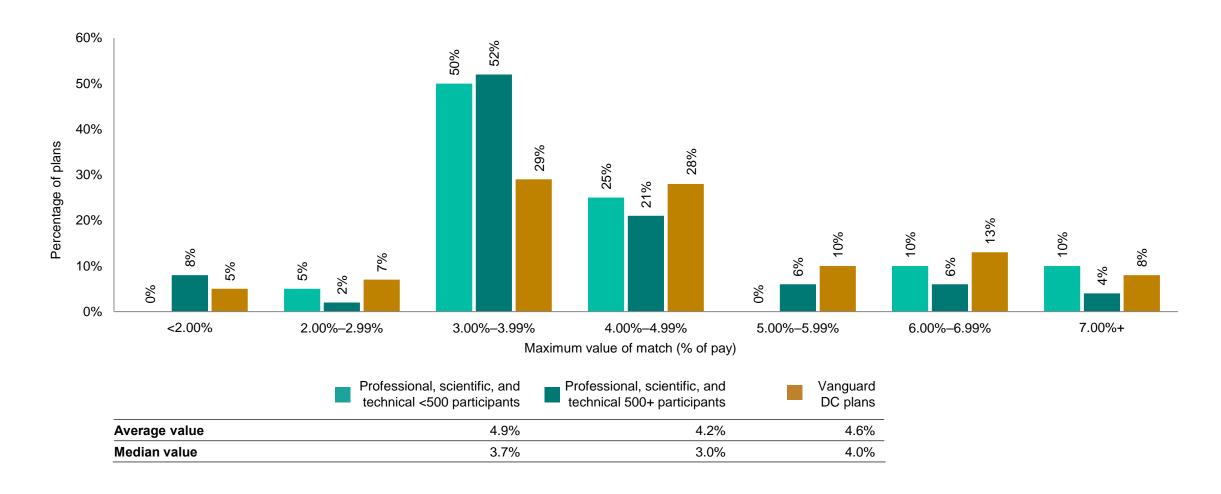


Source: Vanguard, as of December 31, 2023.

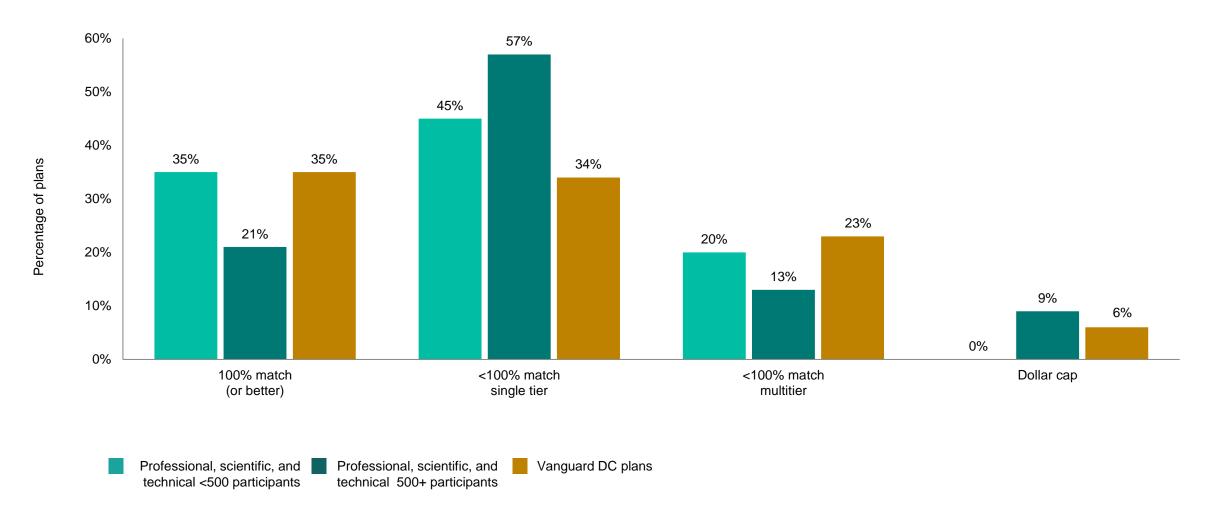
Bars in the chart may not align precisely with percentages due to rounding.

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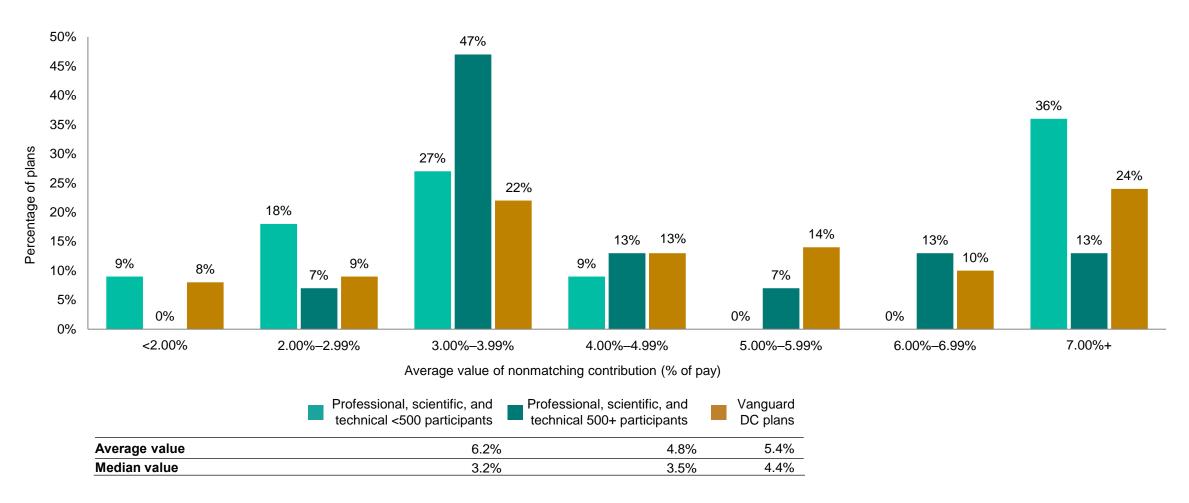
Matching contributions



Matching formulas



Nonmatching/Profit-sharing employer contributions



Roth availability and use

		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
Percentage of plans offering Roth (among plans with elective deferrals)		89%	98%	82%
Percentage of plan assets invested in Roth*		5.7%	6.0%	4.4%
	<1%	8%	0%	9%
	1%–2%	17%	20%	34%
Bladdhadlan afaranantan afalan arastala Badh	3%–5%	31%	41%	33%
Distribution of percentage of plan assets in Roth	6%–9%	35%	25%	15%
	10%–14%	4%	12%	5%
	15%+	4%	2%	3%
Percentage of participants with assets in Roth*		29%	28%	18%
Percentage of participant assets in Roth**		17%	22%	18%
	1%–24%	49%	40%	50%
	25%-49%	22%	25%	24%
Distribution of participant assets in Roth	50%-74%	18%	18%	14%
	75%–99%	9%	13%	6%
	100%	3%	4%	3%
Percentage of participants making Roth contributions (past 12 months)***		27%	28%	17%
Percentage of participant contributions going to Roth**		65%	60%	54%
	1%–24%	16%	17%	22%
	25%-49%	18%	23%	26%
Distribution of percentage of participant contributions to Roth	50%-74%	16%	16%	15%
	75%–99%	6%	8%	7%
	100%	45%	35%	29%_

Percentages may not total 100% because of rounding.

^{*} Among plans offering Roth.** Among participants using Roth.

^{***} Among participants making elective deferrals. Source: Vanguard, as of December 31, 2023.

Participant loans and in-service withdrawals

		Professional, scientific, and technical services <500 participants	Professional, scientific, and technical services 500+ participants	Vanguard DC plans
	Percentage of participants with outstanding loans	6%	7%	13%
Outstanding loans*	Percentage of account balance in loans	6%	8%	9%
	Average loan balance	\$15,422	\$12,373	\$10,708
	No loans	94%	93%	87%
Development of active monticinants with cutotanding large*	One loan	5%	6%	10%
Percentage of active participants with outstanding loans*	Two loans	1%	1%	3%
	Three+ loans	0%	0%	0%
Lance Second word 40 months to	Average per 500 active participants	43	59	105
Loans issued past 12 months*	Average loan amount	\$18,387	\$13,621	\$10,646
North and all the will do not be followed at 40 and at the	Average per 500 active participants	69	67	113
Nonhardship withdrawals taken past 12 months**	Average withdrawal amount	\$47,155	\$28,628	\$17,112
	Average per 500 active participants	8	30	68
Hardship withdrawals taken past 12 months**	Average withdrawal amount	\$7,476	\$5,583	\$4,730

Source: Vanguard, as of December 31, 2023.

Percentages may not total 100% because of rounding.

^{*} Among plans allowing loans.

^{**} Among participants allowed in-service withdrawals.

Important information

All investing is subject to risk, including the possible loss of the money you invest. Be aware that fluctuations in the financial markets and other factors may cause declines in the value of your account. There is no guarantee that any particular asset allocation or mix of funds will meet your investment objectives or provide you with a given level of income. Diversification does not ensure a profit or protect against a loss.

A stable value investment is neither insured nor guaranteed by the U.S. government. There is no assurance that the investment will be able to maintain a stable net asset value, and it is possible to lose money in such an investment.

Investments in target-date funds are subject to the risks of their underlying funds. The year in the fund name refers to the approximate year (the target date) when an investor in the fund would retire and leave the workforce. The fund will gradually shift its emphasis from more aggressive investments to more conservative ones based on its target date. An investment in target-date funds is not guaranteed at any time, including on or after the target date.

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