The Duke Faculty and Staff Retirement Plan ("Duke Retirement Plan") investment lineup will include new investment options as well as current investment options. Refer to this Investment Options Guide for fund descriptions of each investment option that will be in your Duke Retirement Plan.

**Ticker:** This is also called the “trading” symbol for the fund. If the fund is listed and traded on any of the major exchanges, this is the code that is used to identify the fund. Descriptions are listed alphabetically. Click on the name to link to the description.

- American Century Mid Cap Value Fund R6 Class
- American Funds EuroPacific Growth Fund® Class R-6
- Fidelity® Contrafund K6
- Fidelity® International Small Cap Fund
- Fidelity® Low-Priced Stock K6 Fund
- Fidelity® Small Cap Growth K6 Fund
- Fidelity® Small Cap Value Fund
- Goldman Sachs Small Cap Value Fund Class R6
- Janus Henderson Triton Fund Class N
- MFS® Mid Cap Value Fund Class R6
- MFS® Value Fund Class R6
- MassMutual Select Mid Cap Growth Fund Class I
- Metropolitan West Total Return Bond Fund Plan Class
- PIMCO Income Fund Institutional Class
- TIAA Traditional Fixed Annuity
- T. Rowe Price Growth Stock Fund I Class
- VALIC Fixed-Interest Option
- Vanguard Emerging Markets Stock Index Fund Institutional Shares
- Vanguard Equity-Income Fund Admiral Shares
- Vanguard Extended Market Index Fund Institutional Plus Shares
- Vanguard FTSE Social Index Fund Investor Shares
- Vanguard Federal Money Market Fund Investor Shares
- Vanguard Institutional Index Fund Institutional Plus Shares
- Vanguard Institutional Target Retirement 2015 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2020 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2025 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2030 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2035 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2040 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2045 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2050 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2055 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2060 Fund Institutional Shares
- Vanguard Institutional Target Retirement 2065 Fund Institutional Shares
- Vanguard Institutional Target Retirement Income Fund Institutional Shares
- Vanguard International Growth Fund Admiral Shares
- Vanguard PRIMECAP Fund Admiral Shares
- Vanguard Real Estate Index Fund Institutional Shares
- Vanguard Total Bond Market Index Fund Institutional Shares
- Vanguard Total International Stock Index Fund Institutional Shares
American Century Mid Cap Value Fund R6 Class

Ticker: AMDVX
Category: Mid-Cap Value

Objective: The investment seeks long-term capital growth; income is a secondary consideration.

Strategy: Under normal market conditions, the portfolio managers will invest at least 80% of the fund's net assets in medium size companies. The portfolio managers consider medium size companies to include those whose market capitalizations at the time of purchase are within the capitalization range of the Russell 3000® Index, excluding the largest 100 such companies.

Risk: Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with value-style investments and the potentially greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell 3000 Index is an unmanaged market capitalization-weighted index that includes the 3,000 largest U.S. companies representing approximately 98 percent of the investable U.S. equity market.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 07/26/2013. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 03/31/2004, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
American Funds EuroPacific Growth Fund® Class R-6

Ticker: RERGX
Category: Foreign Large Growth
Objective: The investment seeks long-term growth of capital.
Strategy: The fund invests primarily in common stocks of issuers in Europe and the Pacific Basin that the investment adviser believes have the potential for growth. Growth stocks are stocks that the investment adviser believes have the potential for above-average capital appreciation. It normally will invest at least 80% of its net assets in securities of issuers in Europe and the Pacific Basin. The fund may invest a portion of its assets in common stocks and other securities of companies in emerging markets.
Risk: Foreign securities are subject to interest-rate, currency-exchange-rate, economic, and political risks, all of which may be magnified in emerging markets. Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking to complement a portfolio of domestic investments with international investments, which can behave differently; Someone who is willing to accept the higher degree of risk associated with investing overseas.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 05/01/2009. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 04/16/1984, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Fidelity® Contrafund K6

Ticker: FLCNX
Category: Large Growth
Objective: Seeks capital appreciation.
Strategy: Normally investing primarily in common stocks. Investing in securities of companies whose value Fidelity Management & Research Company (FMR) believes is not fully recognized by the public. Investing in domestic and foreign issuers. Investing in either "growth" stocks or "value" stocks or both. Using fundamental analysis of factors such as each issuer’s financial condition and industry position, as well as market and economic conditions, to select investments.
Risk: Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Foreign securities are subject to interest rate, currency exchange rate, economic, and political risks.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated with growth-oriented stocks.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Fidelity® International Small Cap Fund

Ticker: FISMX

Category: Foreign Small/Mid Blend

Objective: Seeks capital appreciation.

Strategy: Normally investing primarily in non-U.S. securities, including securities of issuers located in emerging markets. Normally investing at least 80% of assets in securities of companies with small market capitalizations (companies with market capitalizations of $5 billion or less). Normally investing primarily in common stocks.

Risk: Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Foreign securities are subject to interest rate, currency exchange rate, economic, and political risks, all of which are magnified in emerging markets. The securities of smaller, less well-known companies can be more volatile than those of larger companies.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking to complement a portfolio of domestic investments with international investments in smaller companies, which can behave differently; Someone who is willing to accept the higher degree of risk associated both with investing overseas and with investing in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Fidelity® Low-Priced Stock K6 Fund

Ticker: FLKSX
Category: Mid-Cap Value
Objective: Seeks capital appreciation.

Strategy: Normally investing primarily in common stocks. Normally investing at least 80% of assets in low-priced stocks (those priced at or below $35 per share or with an earnings yield at or above the median for the Russell 2000 Index), which can lead to investments in small and medium-sized companies. Earnings yield represents a stock’s earnings per share for the most recent 12-months divided by current price per share. Potentially investing in stocks not considered low-priced. Investing in domestic and foreign issuers. Investing in either "growth" stocks or "value" stocks or both. Using fundamental analysis of factors such as each issuer’s financial condition and industry position, as well as market and economic conditions, to select investments.

Risk: Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Foreign securities are subject to interest rate, currency exchange rate, economic, and political risks. The value of securities of smaller issuers can be more volatile than that of larger issuers.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with value-style investments and the potentially greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell 2000® Index is an unmanaged market capitalization-weighted index of 2,000 small company stocks of U.S. domiciled companies.
Ticker: FOCSX
Category: Small Growth
Objective: Seeks capital appreciation.
Strategy: Normally investing primarily in common stocks. Normally investing at least 80% of assets in securities of companies with small market capitalizations (which, for purposes of this fund, are those companies with market capitalizations similar to companies in the Russell 2000 Index or the S&P SmallCap 600 Index). Investing in companies that Fidelity Management &Research Company (FMR) believes have above-average growth potential (stocks of these companies are often called "growth" stocks). Investing in domestic and foreign issuers. Using fundamental analysis of factors such as each issuer's financial condition and industry position, as well as market and economic conditions, to select investments.
Risk: Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. The securities of smaller, less well-known companies can be more volatile than those of larger companies. "Growth" stocks can perform differently from the market as a whole and other types of stocks and can be more volatile than other types of stocks. Foreign securities are subject to interest rate, currency exchange rate, economic, and political risks.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated both with growth-oriented stocks and with smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell 2000 Index is an unmanaged market capitalization-weighted index of 2,000 small company stocks of U.S. domiciled companies.

The S&P Small Cap 600 Index is a registered service mark of The McGraw-Hill Companies, Inc., and has been licensed for use by Fidelity Distributors Corporation and its affiliates. It is a market capitalization-weighted index of 600 small-capitalization stocks.
Ticker: FCPVX
Category: Small Value
Objective: Seeks capital appreciation.
Strategy: Normally investing at least 80% of assets in securities of companies with small market capitalizations (companies with market capitalizations similar to companies in the Russell 2000 Index or the Standard & Poor's Small Cap 600 Index). Investing in securities of companies that FMR believes are undervalued in the marketplace in relation to factors such as assets, sales, earnings, growth potential, or cash flow, or in relation to securities of other companies in the same industry (stocks of those companies are often called "value" stocks). Normally investing primarily in common stocks.
Risk: Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Foreign securities are subject to interest rate, currency exchange rate, economic, and political risks. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with value-style investments and the potentially greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell 2000® Index is an unmanaged market capitalization-weighted index of 2,000 small company stocks of U.S. domiciled companies.

The S&P Small Cap 600® Index is a registered service mark of The McGraw-Hill Companies, Inc., and has been licensed for use by Fidelity Distributors Corporation and its affiliates. It is a market capitalization-weighted index of 600 small-capitalization stocks.
Goldman Sachs Small Cap Value Fund Class R6

Ticker: GSSUX
Category: Small Blend

Objective: The investment seeks long-term capital appreciation.
Strategy: The fund normally invests at least 80% of its net assets plus any borrowings for investment purposes (measured at time of purchase) ("net assets") in a diversified portfolio of equity investments in small-cap issuers with public stock market capitalizations within the range of the market capitalization of companies constituting the Russell 2000® Value Index at the time of investment. Although it will invest primarily in publicly traded U.S. securities, including real estate investment trusts, it may also invest in foreign securities.

Risk: The securities of smaller, less well-known companies can be more volatile than those of larger companies. Value and growth stocks can perform differently from other types of stocks. Growth stocks can be more volatile. Value stocks can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is seeking both growth- and value-style investments and who is willing to accept the generally greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell 2000® Value Index is an unmanaged market capitalization-weighted index of value-oriented stocks of U.S. domiciled companies that are included in the Russell 2000 Index. Value-oriented stocks tend to have lower price-to-book ratios and lower forecasted growth values.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 07/31/2015. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 10/22/1992, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

As of 09/15/2017, Fidelity was notified this fund changed its name from Goldman Sachs Small Cap Value Class R6. See the fund's prospectus for any additional details.
Ticker: JGMNX
Category: Small Growth
Objective: The investment seeks long-term growth of capital.
Strategy: The fund pursues its investment objective by investing primarily in common stocks selected for their growth potential. In pursuing that objective, it invests in equity securities of small- and medium-sized companies. Generally, small- and medium-sized companies have a market capitalization of less than $10 billion. Market capitalization is a commonly used measure of the size and value of a company. The fund may also invest in foreign securities, which may include investments in emerging markets.
Risk: The securities of smaller, less well-known companies can be more volatile than those of larger companies. Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated both with growth-oriented stocks and with smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 05/31/2012. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 02/25/2005, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
MFS® Mid Cap Value Fund Class R6

Ticker: MVCKX
Category: Mid-Cap Value

Objective: The investment seeks capital appreciation.

Strategy: The fund normally invests at least 80% of the fund's net assets in issuers with medium market capitalizations. The adviser generally defines medium market capitalization issuers as issuers with market capitalizations similar to those of issuers included in the Russell Midcap® Value Index over the last 13 months at the time of purchase. It normally invests the fund's assets primarily in equity securities.

Risk: Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with value-style investments and the potentially greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Russell Midcap® Value Index is an unmanaged market capitalization-weighted index of medium-capitalization value-oriented stocks of U.S. domiciled companies that are included in the Russell Midcap® Index. Value-oriented stocks tend to have lower price-to-book ratios and lower forecasted growth values.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 02/01/2013. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 08/31/2001, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

As of 09/12/2017, Fidelity was notified this fund changed its name from MFS Mid Cap Value Fund Class R6. See the fund's prospectus for any additional details.
MFS® Value Fund Class R6

Ticker: MEIKX
Category: Large Value

Objective: The investment seeks capital appreciation.

Strategy: The fund normally invests the fund's assets primarily in equity securities. Equity securities include common stocks and other securities that represent an ownership interest (or right to acquire an ownership interest) in a company or other issuer. MFS focuses on investing the fund's assets in the stocks of companies it believes are undervalued compared to their perceived worth (value companies).

Risk: Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with the volatility of large-cap stocks and value-style investments.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 05/01/2006. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 01/02/1996, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

As of 09/12/2017, Fidelity was notified this fund changed its name from MFS Value Fund Class R6. See the fund's prospectus for any additional details.
MassMutual Select Mid Cap Growth Fund Class I

Ticker: MEFZX
Category: Mid-Cap Growth

Objective: The investment seeks growth of capital over the long-term.

Strategy: The fund invests primarily in equity securities of mid-capitalization companies that the fund's subadvisers believe offer the potential for long-term growth. It invests at least 80% of its net assets (plus the amount of any borrowings for investment purposes) in a broadly diversified portfolio of common stocks of mid-cap companies whose earnings the subadvisers expect to grow at a faster rate than the average company.

Risk: Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated both with growth-oriented stocks and with smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 11/15/2010. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 05/31/2000, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Metropolitan West Total Return Bond Fund Plan Class

Ticker: MWTSX
Category: Intermediate-Term Bond
Objective: The investment seeks to maximize long-term total return.
Strategy: The fund pursues its objective by investing, under normal circumstances, at least 80% of its net assets in investment grade fixed income securities or unrated securities that are determined by the Adviser to be of similar quality. Up to 20% of the fund's net assets may be invested in securities rated below investment grade. The fund also invests at least 80% of its net assets plus borrowings for investment purposes in fixed income securities it regards as bonds.
Risk: In general the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk and credit and default risks for both issuers and counterparties. Unlike individual bonds, most bond funds do not have a maturity date, so avoiding losses caused by price volatility by holding them until maturity is not possible. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking potential returns primarily in the form of interest dividends rather than through an increase in share price; Someone who is seeking to diversify an equity portfolio with a more conservative investment option.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 07/29/2011. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 03/31/1997, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
**Ticker:** PIMIX  
**Category:** Multisector Bond  
**Objective:** The investment seeks to maximize current income; long-term capital appreciation is a secondary objective.  
**Strategy:** The fund invests at least 65% of its total assets in a multi-sector portfolio of Fixed Income Instruments of varying maturities, which may be represented by forwards or derivatives such as options, futures contracts or swap agreements. It may invest up to 50% of its total assets in high yield securities rated below investment grade by Moody's, S&P or Fitch, or if unrated, as determined by PIMCO.  
**Risk:** The fund may invest in lower-quality debt securities that involve greater risk of default or price changes due to potential changes in the credit quality of the issuer. In general the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk and credit and default risks for both issuers and counterparties. Unlike individual bonds, most bond funds do not have a maturity date, so avoiding losses caused by price volatility by holding them until maturity is not possible. Additional risk information for this product may be found in the prospectus or other product materials, if available.  
**Short-term redemption fee:** None  
**Who may want to invest:** Someone who is seeking potential returns primarily in the form of interest dividends rather than through an increase in share price; Someone looking for a fund investing in a mix of bonds that range from conservative to high risk and who can tolerate the risks associated with fixed-income investments.  

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
**TIAA Traditional Fixed Annuity**

Ticker: N/A

To view this description, visit [www.tiaa.org/duke](http://www.tiaa.org/duke).

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**T. Rowe Price Growth Stock Fund I Class**

Ticker: PRUFX

**Category:** Large Growth

**Objective:** The investment seeks long-term capital growth through investments in stocks.

**Strategy:** The fund will normally invest at least 80% of its net assets (including any borrowings for investment purposes) in the common stocks of a diversified group of growth companies. While most assets will typically be invested in U.S. common stocks, the fund may invest in foreign stocks in keeping with the fund's objectives.

**Risk:** Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

**Short-term redemption fee:** None

**Who may want to invest:** Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated with growth-oriented stocks.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 08/28/2015. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 04/11/1950, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
VALIC Fixed-Interest Option

Ticker: N/A
Category: Stable Value
Objective: Seeks to maximize return subject to the constraints of stability, liquidity and diversification. An emphasis on diversification as to type of investment, geographical influence and industry concentration reflects the philosophy that stability of principal is the primary consideration.

Strategy: The VALIC Fixed-Interest Option* is a group annuity investing in the general account assets of VALIC. The VALIC general account invests in a diversified portfolio of bonds, mortgages, cash and short-term investments, equity-related investments and policy loans. Unit price, yield and return will vary.

Risk: The fund is backed by a diversified portfolio of fixed-income assets held in the general account of the issuer. Guarantees are subject to the claims paying ability of the issuer. Restrictions or fees may apply to exchanges or withdrawals. The Contracts provide for the payment of certain withdrawals and exchanges at book value during the terms of the Contracts. In order to maintain the Contract issuers' promise to pay such withdrawals and exchanges at book value, the Contracts subject the fund and its participants to certain restrictions. For example, withdrawals prompted by certain events (e.g., layoffs, early retirement windows, spin-offs, sale of a division, facility closings, plan terminations, partial plan terminations, changes in laws or regulations) may be paid at the market value of the fund's securities, which may be less than your book value balance or may restrict withdrawals in these events. Additional risk information for this product may be found in the prospectus or other product materials, if available. Certain investment options offered by your plan (e.g., money market funds, short term bond funds, certain asset allocation/lifecycle funds and brokerage window) may be deemed by the Contract issuers to "compete" with this fund. The terms of the Contracts prohibit you from making a direct exchange from this fund to such competing funds. Instead, you must first exchange to a non-competing fund for 90 days. While these requirements may seem restrictive, they are imposed by the Contract issuers as a condition for the issuer's promise to pay certain withdrawals and exchanges at book value.

Short-term redemption fee: None

Who may want to invest: Someone who seeks a slightly higher yield over the long term than is offered by money market funds, but who is willing to accept slightly more investment risk; Someone who is interested in balancing an aggressive portfolio with an investment that seeks to provide a declared crediting rate that is reset on a periodic basis.

The investment option is an annuity. The fund is managed by Variable Annuity Life Insurance Company (VALIC). This description is only intended to provide a brief overview of the fund.

This investment option is not a mutual fund.
Vanguard Emerging Markets Stock Index Fund Institutional Shares

Ticker: VEMIX

Category: Diversified Emerging Mkts

Objective: The investment seeks to track the performance of a benchmark index that measures the investment return of stocks issued by companies located in emerging market countries.

Strategy: The fund employs an indexing investment approach designed to track the performance of the FTSE Emerging Markets All Cap China A Inclusion Index, a market-capitalization-weighted index that is made up of approximately 3,658 common stocks of large-, mid-, and small-cap companies located in emerging markets around the world.

Risk: Foreign securities are subject to interest-rate, currency-exchange-rate, economic, and political risks, all of which may be magnified in emerging markets. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is willing to accept the higher degree of risk associated with investing in emerging markets; Someone who is seeking to complement a portfolio of domestic investments and/or international investments in developed countries with investments in developing countries, which can behave differently.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The FTSE Emerging Markets All Cap China A Inclusion Index is a market capitalization weighted index representing the performance of large, mid and small cap stocks in Emerging markets.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 06/22/2000. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 05/04/1994, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Vanguard Equity-Income Fund Admiral Shares

Ticker: VEIRX
Category: Large Value
Objective: The investment seeks to provide an above-average level of current income and reasonable long-term capital appreciation.

Strategy: The fund invests mainly in common stocks of mid-size and large companies whose stocks typically pay above-average levels of dividend income and are, in the opinion of the purchasing advisor, undervalued relative to similar stocks. In addition, the advisors generally look for companies that they believe are committed to paying dividends consistently. Under normal circumstances, it will invest at least 80% of its assets in equity securities. The fund uses multiple investment advisors.

Risk: Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is comfortable with the volatility of large-cap stocks and value-style investments.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 08/13/2001. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 03/21/1988, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Vanguard Extended Market Index Fund Institutional Plus Shares

Ticker: VEMPX  
Category: Mid-Cap Blend  
Objective: The investment seeks to track a benchmark index that measures the investment return of small- and mid-capitalization stocks.  
Strategy: The fund employs an indexing investment approach designed to track the performance of S&P Completion Index, a broadly diversified index of stocks of small and mid-size U.S. companies. It invests by sampling the index, meaning that it holds a broadly diversified collection of securities that, in the aggregate, approximates the full index in terms of key characteristics. These characteristics include industry weightings and market capitalization, as well as certain financial measures, such as price/earnings ratio and dividend yield.  
Risk: Value and growth stocks can perform differently from other types of stocks. Growth stocks can be more volatile. Value stocks can continue to be undervalued by the market for long periods of time. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.  
Short-term redemption fee: None  
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is seeking both growth- and value-style investments and who is willing to accept the generally greater volatility of investments in smaller companies.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The S&P Completion Index contains all of the U.S. common stocks regularly traded on the New York and American Stock Exchanges and the Nasdaq over-the-counter market, except those stocks included in the S&P 500 Index.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 01/14/2011. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 12/21/1987, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Vanguard FTSE Social Index Fund Institutional Shares

Ticker: VFTNX
Category: Large Blend
Objective: The investment seeks to track the performance of a benchmark index that measures the investment return of large- and mid-capitalization stocks.

Strategy: The fund employs an indexing investment approach designed to track the performance of the FTSE4Good US Select Index. The index is composed of the stocks of companies that have been screened for certain social and environmental criteria by the index sponsor, which is independent of Vanguard. The Advisor attempts to replicate the index by investing all, or substantially all, of its assets in the stocks that make up the index.

Risk: Value and growth stocks can perform differently from other types of stocks. Growth stocks can be more volatile. Value stocks can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is seeking both growth- and value-style investments and who is willing to accept the volatility associated with investing in the stock market.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

Additional Risk Information: The Fund's social responsibility criteria will affect the fund's exposure to certain issuers, industries, sectors, regions and countries and could cause the fund to sell or avoid stocks that subsequently perform well. In addition, undervalued stocks that do not meet the social criteria could outperform those that do.

The FTSE4Good U.S. Select Index is composed of the stocks of companies that have been screened for certain social and environmental criteria by the index sponsor, which is independent of Vanguard.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 01/14/2003. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 05/31/2000, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Ticker: VMFXX
Category: Money Market-Taxable

Objective: The investment seeks to provide current income while maintaining liquidity and a stable share price of $1.

Strategy: The fund invests primarily in high-quality, short-term money market instruments. Under normal circumstances, at least 80% of the fund's assets are invested in securities issued by the U.S. government and its agencies and instrumentalities. It maintains a dollar-weighted average maturity of 60 days or less and a dollar-weighted average life of 120 days or less. The fund generally invests 100% of its assets in government securities and therefore will satisfy the 99.5% requirement for designation as a government money market fund.

Risk: You could lose money by investing in a money market fund. Although the fund seeks to preserve the value of your investment at $1.00 per share, it cannot guarantee it will do so. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to money market funds and you should not expect that the sponsor will provide financial support to the fund at any time. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who has a low tolerance for investment risk and who wishes to keep the value of his or her investment relatively stable; Someone who is seeking to complement his or her bond and stock fund holdings in order to reach a particular asset allocation.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Ticker: VIIIX
Category: Large Blend
Objective: The investment seeks to track the performance of a benchmark index that measures the investment return of large-capitalization stocks.

Strategy: The fund employs an indexing investment approach designed to track the performance of the Standard & Poor's 500 Index, a widely recognized benchmark of U.S. stock market performance that is dominated by the stocks of large U.S. companies. The advisor attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index.

Risk: Value and growth stocks can perform differently from other types of stocks. Growth stocks can be more volatile. Value stocks can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation and, secondarily, dividend income; Someone who is seeking both growth- and value-style investments and who is willing to accept the volatility associated with investing in the stock market.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

S&P 500 Index is a market capitalization-weighted index of 500 common stocks chosen for market size, liquidity, and industry group representation to represent U.S. equity performance.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 07/07/1997. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 07/31/1990, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Vanguard Institutional Target Retirement 2015 Fund Institutional Shares

Ticker: VITVX
Category: Target-Date 2015

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2015. As of September 30, 2017, its asset allocation among the underlying funds was as follows: Vanguard Total Bond Market II Index Fund 32.1%; Vanguard Total Stock Market Index Fund 26.1%; Vanguard Total International Stock Index Fund 17.4%; Vanguard Total International Bond Index Fund 13.4%; Vanguard Short-Term Inflation-Protected Securities Index Fund 11.0%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option intended for people in or very near retirement and who is willing to accept the volatility of diversified investments in the market; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Ticker: VITWX
Category: Target-Date 2020
Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.
Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2020. As of September 30, 2017, its asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 33.3%; Vanguard Total Bond Market II Index Fund 28.8%; Vanguard Total International Stock Index Fund 22.0%; Vanguard Total International Bond Index Fund 12.1%; Vanguard Short-Term Inflation-Protected Securities Index Fund 3.8%.
Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund’s name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund’s prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2025 Fund Institutional Shares

Ticker: VRIVX

Category: Target-Date 2025

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2025 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 38.7%; Vanguard Total International Stock Index Fund 25.4%; Vanguard Total Bond Market II Index Fund 25.4%; Vanguard Total International Bond Index Fund 10.5%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2030 Fund Institutional Shares

Ticker: VTTWX
Category: Target-Date 2030

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2030 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 43.1%; Vanguard Total International Stock Index Fund 28.3%; Vanguard Total Bond Market II Index Fund 20.3%; Vanguard Total International Bond Index Fund 8.3%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2035 Fund Institutional Shares

Ticker: VITFX

Category: Target-Date 2035

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2035 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 47.6%; Vanguard Total International Stock Index Fund 31.2%; Vanguard Total Bond Market II Index Fund 15.1%; Vanguard Total International Bond Index Fund 6.1%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2040 Fund Institutional Shares

Ticker: VIRSX
Category: Target-Date 2040

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2040 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 52.4%; Vanguard Total International Stock Index Fund 33.9%; Vanguard Total Bond Market II Index Fund 9.8%; Vanguard Total International Bond Index Fund 3.9%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2045 Fund Institutional Shares

Ticker: VITLX
Category: Target-Date 2045
Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.
Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2045 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 54.2%; Vanguard Total International Stock Index Fund 35.8%; Vanguard Total Bond Market II Index Fund 7.1%; Vanguard Total International Bond Index Fund 2.9%.
Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement 2050 Fund Institutional Shares

**Ticker:** VTRLX  
**Category:** Target-Date 2050  

**Objective:** The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

**Strategy:** The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2050 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 54.3%; Vanguard Total International Stock Index Fund 35.8%; Vanguard Total Bond Market II Index Fund 7.0%; Vanguard Total International Bond Index Fund 2.9%.

**Risk:** The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

**Short-term redemption fee:** None

**Who may want to invest:** Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Ticker: VIVLX

Category: Target-Date 2055

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2055 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 54.4%; Vanguard Total International Stock Index Fund 35.7%; Vanguard Total Bond Market II Index Fund 7.0%; Vanguard Total International Bond Index Fund 2.9%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Ticker: VILVX

Category: Target-Date 2060+

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2060 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Stock Market Index Fund 54.1%; Vanguard Total International Stock Index Fund 36.0%; Vanguard Total Bond Market II Index Fund 7.0%; Vanguard Total International Bond Index Fund 2.9%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Ticker: VSXFX

Category: Target-Date 2060+

Objective: The investment seeks to provide capital appreciation and current income consistent with its current asset allocation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2065 (the target year). As of September 30, 2017, the fund's asset allocation among the underlying funds is as follows: Vanguard Total Stock Market Index Fund 53.9%; Vanguard Total International Stock Index Fund 36.1%; Vanguard Total Bond Market II Index Fund 7.0%; Vanguard Total International Bond Index Fund 3.0%.

Risk: The target date funds are designed for investors expecting to retire around the year indicated in each fund's name. The funds are managed to gradually become more conservative over time as they approach their target date. The investment risk of each target date fund changes over time as its asset allocation changes. They are subject to the volatility of the financial markets, including that of equity and fixed income investments in the U.S. and abroad, and may be subject to risks associated with investing in high-yield, small-cap, and foreign securities. Principal invested is not guaranteed at any time, including at or after their target dates. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option that gradually becomes more conservative over time and who is willing to accept the volatility of the markets; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option or who does not feel comfortable making asset allocation choices over time.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard Institutional Target Retirement Income Fund Institutional Shares

Ticker: VITRX

Category: Target-Date Retirement

Objective: The investment seeks to provide current income and some capital appreciation.

Strategy: The fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors currently in retirement. As of September 30, 2017, the fund's asset allocation among the underlying funds was as follows: Vanguard Total Bond Market II Index Fund 37.7%; Vanguard Total Stock Market Index Fund 18.1%; Vanguard Short-Term Inflation-Protected Securities Index Fund 16.7%; Vanguard Total International Bond Index Fund 15.5%; Vanguard Total International Stock Index Fund 12.0%.

Risk: The fund is subject to the volatility of the financial markets, including that of equity and fixed income investments. Fixed income investments carry issuer default and credit risk, inflation risk, and interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Principal invested is not guaranteed at any time, including at or after retirement. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking an investment option intended for people in retirement and who is willing to accept the volatility of diversified investments in the market; Someone who is seeking a diversified mix of stocks, bonds, and short-term investments in one investment option and looking primarily for the potential for income and, secondarily, for share-price appreciation.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.
Vanguard International Growth Fund Admiral Shares

Ticker: VWILX
Category: Foreign Large Growth
Objective: The investment seeks to provide long-term capital appreciation.
Strategy: The fund invests predominantly in the stocks of companies located outside the United States and is expected to diversify its assets in countries across developed and emerging markets. In selecting stocks, the fund's advisors evaluate foreign markets around the world and choose large-, mid-, and small-capitalization companies considered to have above-average growth potential. The fund uses multiple investment advisors.
Risk: Foreign securities are subject to interest-rate, currency-exchange-rate, economic, and political risks, all of which may be magnified in emerging markets. Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking to complement a portfolio of domestic investments with international investments, which can behave differently; Someone who is willing to accept the higher degree of risk associated with investing overseas.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 08/13/2001. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 09/30/1981, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Vanguard PRIMECAP Fund Admiral Shares

Ticker: VPMAX
Category: Large Growth
Objective: The investment seeks long-term capital appreciation.
Strategy: The fund invests in stocks considered to have above-average earnings growth potential that is not reflected in their current market prices. Its portfolio consists predominantly of large- and mid-capitalization stocks.
Risk: Growth stocks can perform differently from the market as a whole and can be more volatile than other types of stocks. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Additional risk information for this product may be found in the prospectus or other product materials, if available.
Short-term redemption fee: None
Who may want to invest: Someone who is seeking the potential for long-term share-price appreciation; Someone who is willing to accept the generally greater price volatility associated with growth-oriented stocks.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 11/12/2001. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 11/01/1984, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Ticker: VGSNX
Category: Real Estate

Objective: The investment seeks to provide a high level of income and moderate long-term capital appreciation by tracking the performance of the MSCI US Investable Market Real Estate 25/50 Transition Index that measures the performance of publicly traded equity REITs and other real estate-related investments.

Strategy: The advisor attempts to replicate the index by investing all, or substantially all, of its assets—either directly or indirectly through a wholly owned subsidiary, which is itself a registered investment company—in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index. The fund is non-diversified.

Risk: Real Estate is a cyclical industry that is sensitive to interest rates, economic conditions (both nationally and locally), property tax rates, and other factors. Changes in real estate values or economic downturns can have a significant negative effect on issuers in the real estate industry. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. These risks may be magnified in foreign markets. Sector funds can be more volatile because of their narrow concentration in a specific industry. In general the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk and credit and default risks for both issuers and counterparties. Unlike individual bonds, most bond funds do not have a maturity date, so avoiding losses caused by price volatility by holding them until maturity is not possible. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is willing to accept the potentially lower diversification and higher risks associated with investing in a particular industry or sector; Someone who is seeking to complement his or her core holdings with investments concentrated in a particular sector or industry.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

MSCI US Investable Market Real Estate 25/50 Transition Index measures the performance of publicly traded equity REITs and other real estate-related investments.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 12/02/2003. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 05/13/1996, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

As of 02/08/2018, Fidelity was notified this fund changed its name from Vanguard REIT Index Fund Institutional Shares. See the fund's prospectus for any additional details.
Vanguard Total Bond Market Index Fund Institutional Shares

Ticker: VBTIX

Category: Intermediate-Term Bond

Objective: The investment seeks the performance of Bloomberg Barclays U.S. Aggregate Float Adjusted Index.

Strategy: Bloomberg Barclays U.S. Aggregate Float Adjusted Index represents a wide spectrum of public, investment-grade, taxable, fixed income securities in the United States—including government, corporate, and international dollar-denominated bonds, as well as mortgage-backed and asset-backed securities—all with maturities of more than 1 year. All of its investments will be selected through the sampling process, and at least 80% of its assets will be invested in bonds held in the index.

Risk: In general the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk and credit and default risks for both issuers and counterparties. Unlike individual bonds, most bond funds do not have a maturity date, so avoiding losses caused by price volatility by holding them until maturity is not possible. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking potential returns primarily in the form of interest dividends rather than through an increase in share price; Someone who is seeking to diversify an equity portfolio with a more conservative investment option.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The Bloomberg Barclays U.S. Aggregate Float Adjusted Index measures the total universe of public, investment-grade, taxable, fixed income securities in the United States—including government, corporate, and international dollar-denominated bonds, as well as mortgage-backed and asset-backed securities—all with maturities of more than 1 year.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 09/18/1995. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 12/11/1986, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.
Ticker: VTSNX

Category: Foreign Large Blend

Objective: The investment seeks to track the performance of a benchmark index that measures the investment return of stocks issued by companies located in developed and emerging markets, excluding the United States.

Strategy: The fund employs an indexing investment approach designed to track the performance of the FTSE Global All Cap ex US Index, a float-adjusted market-capitalization-weighted index designed to measure equity market performance of companies located in developed and emerging markets, excluding the United States. The index includes approximately 5,800 stocks of companies located in over 45 countries.

Risk: Foreign securities are subject to interest-rate, currency-exchange-rate, economic, and political risks, all of which may be magnified in emerging markets. Value and growth stocks can perform differently from other types of stocks. Growth stocks can be more volatile. Value stocks can continue to be undervalued by the market for long periods of time. Stock markets are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, economic or other developments. Additional risk information for this product may be found in the prospectus or other product materials, if available.

Short-term redemption fee: None

Who may want to invest: Someone who is seeking to complement a portfolio of domestic investments with international investments, which can behave differently; Someone who is willing to accept the higher degree of risk associated with investing overseas.

This description is only intended to provide a brief overview of the mutual fund. Read the fund's prospectus for more detailed information about the fund.

The analysis on these pages may be based, in part, on adjusted historical returns for periods prior to the class's actual inception of 11/29/2010. These calculated returns reflect the historical performance of the oldest share class of the fund, with an inception date of 04/29/1996, adjusted to reflect the fees and expenses of this share class (when this share class's fees and expenses are higher.) Please refer to a fund's prospectus for information regarding fees and expenses. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the fund itself.

The FTSE Global All Cap ex US Index is part of a range of indices designed to help US investors benchmark their international investments. The index comprises large, mid and small cap stocks globally excluding the US.

Before investing in any investment option, consider the investment objectives, risks, charges, and expenses. Contact Fidelity for a mutual fund prospectus or, if available, a summary prospectus. Read them carefully.

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