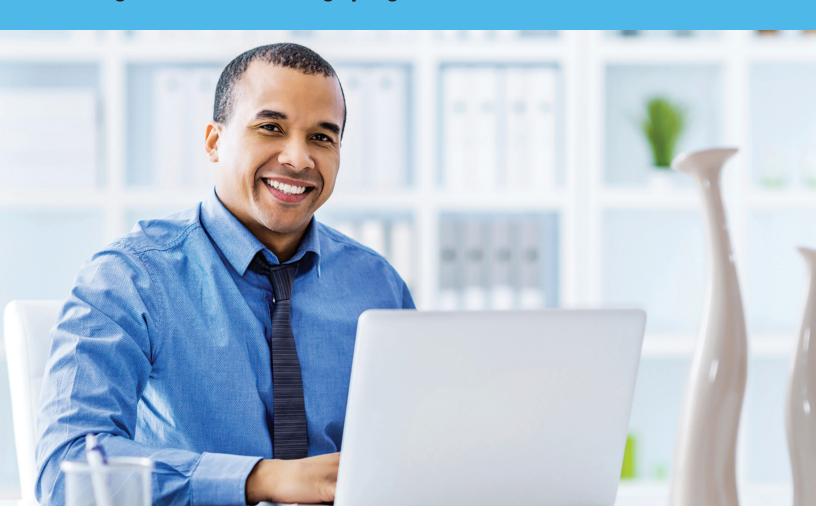
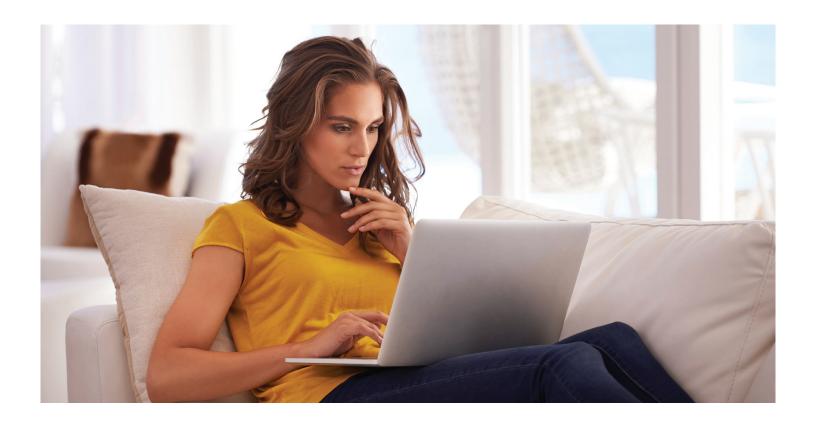
TIAA Self-Directed Brokerage overview and account setup

Your guide to the brokerage program









For investors with specialized investing needs, more choice can mean more opportunity to direct retirement investments across markets and asset classes outside of your plan's core lineup.

The TIAA Self-Directed Brokerage Account is an optional feature made available by the University of Colorado. With this account, you can direct your retirement plan contributions among a variety of investment choices beyond the ones offered through your current plan.

A wide range of investment choices

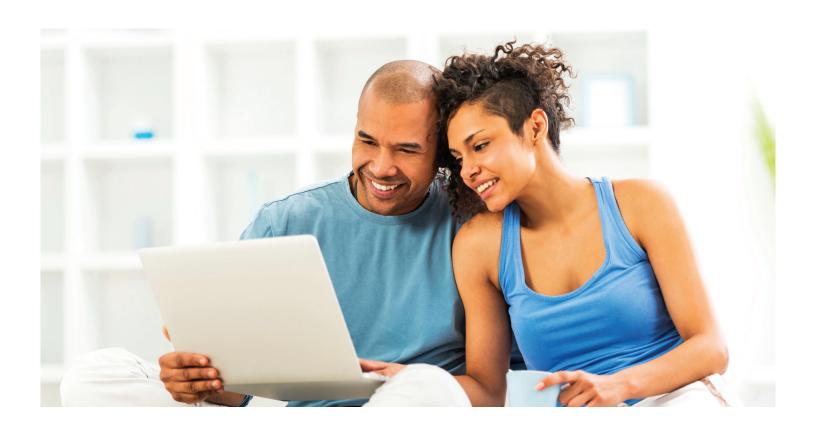
With your brokerage account, you can independently research and select from thousands of mutual funds, including from some well-known fund families, stocks, bonds and exchange-traded funds (ETFs).

Flexibility and simplicity

With TIAA Brokerage, there are multiple ways you can get information on your account and place orders to buy, sell or transfer investments.

- Do it all yourself by logging in to your account at TIAA.org/cu.
- Contact a TIAA financial consultant by calling 800-927-3059. They can place orders or answer any brokerage questions.

Details and step-by-step instructions to open an account are on the following pages.



Before you begin

There are certain requirements and important considerations if you open a TIAA Brokerage account.

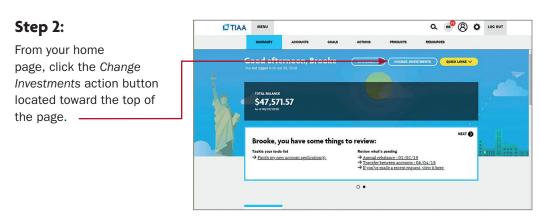
- You'll need both a legitimate U.S. residential address and legitimate U.S. mailing address.
 (P.O. boxes are not acceptable as a residential address but may be used for mailing if a residential address exists.)
- You'll need an established retirement account in the University of Colorado 401(a) plan and/or 403(b) plan for each brokerage account you want to open.
 - There's an initial minimum transfer of \$1,000, up to 100%, from your retirement account to establish the brokerage account.
 - There will be a minimum initial investment of \$500 or the required prospectus minimum, whichever is greater, and additional minimums may apply for subsequent investments for most mutual funds.
 - This account is self-directed. The investments in the brokerage account are not monitored by the University of Colorado.
 - There's no minimum balance requirement, annual fee or maintenance fees; however, some mutual funds and ETFs do have investment minimums.¹
 - Transaction fees may apply. See the Fees section for complete details.
 - Returns for mutual funds and other securities are not guaranteed, and you assume all the risks associated with investing in them.
- These minimum fees and expenses, including those which apply to a continued investment in a fund, are described in the fund's and ETF's, current prospectus.

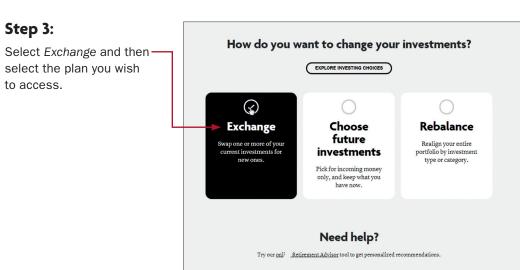
Opening your brokerage account

Please review the requirements and the considerations from the prior page before you begin.

Step 1:

Log in to your online retirement plan at TIAA.org/cu.





Please note: All referenced materials are samples only.

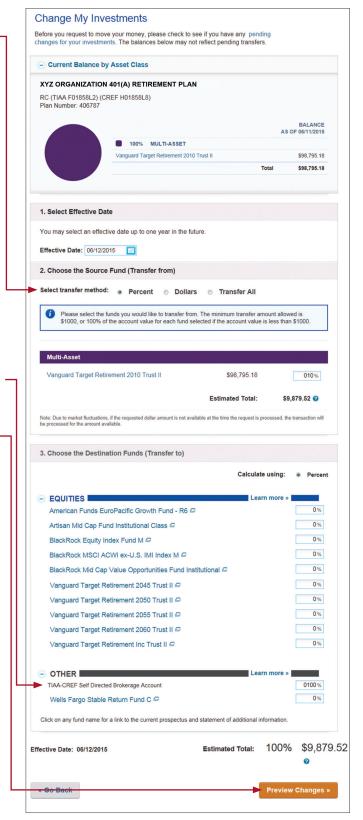
Step 4:

Select the transfer method, either a portion of the funds as a Percent of assets or Dollar amount, or choose to Transfer All.

Step 5:

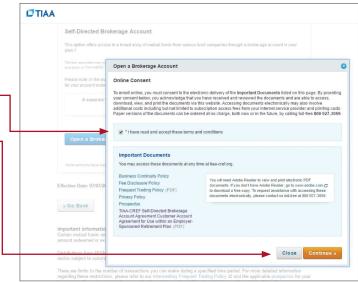
Next, put those funds in the TIAA Self-Directed Brokerage Account. Then, select *Preview Changes* at the bottom of the screen.

Note: Your funds will automatically be invested in the money market sweep account until you provide final investment instructions.





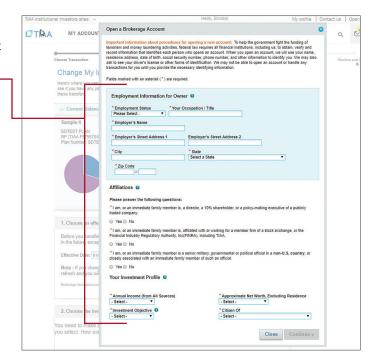
At this point, you'll have to sign a consent for electronic delivery of your important documents. To do so, check I have read and accept these terms and conditions, then select Continue.



Step 7:

Next, enter your employment data, affiliations and investment profile.

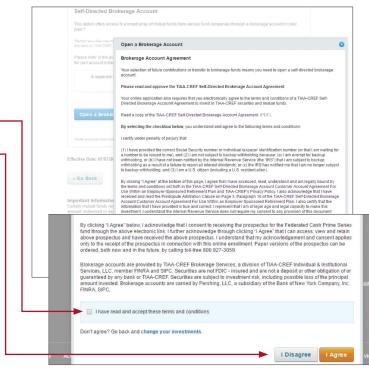
When all the data is entered and verified, select *Continue*.





Then you will need to review the brokerage account agreement.

Once you have completed your review, check *I have read and accept these terms and conditions*, then select *I Agree*.



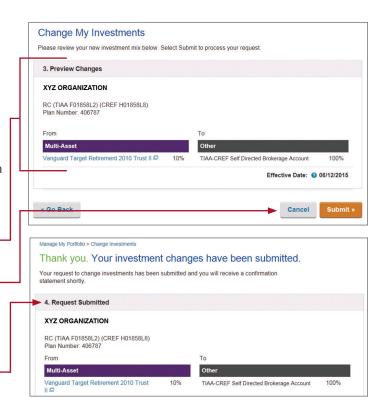
Step 9:

You'll see a message that your brokerage account application has been received and is being processed. This typically takes two business days. Once completed, you'll be able to begin trading within your brokerage account.

You'll need to confirm your initial transfer of funds from Step 5.

Finally, review and select Submit to complete the transaction. A screen will appear that verifies your change of investments.

Congratulations, you're finished with the account-opening process.



TIAA's Brokerage is available only to enrolled plan participants with a permanent U.S. residential and mailing address.

How to access your brokerage account

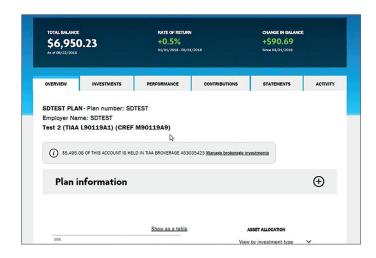
Step 1:

Go to **TIAA.org/cu** and select *Log In*. Enter your user ID and password.



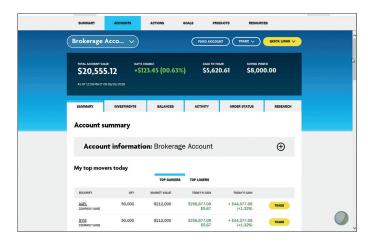
Step 2:

This brings you to the secure home page. You can locate your brokerage accounts by selecting Manage Brokerage Investments.



Step 3:

You will now see the account summary page for your brokerage.

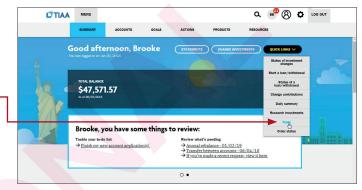


How to buy and sell in your brokerage account

Trading equities, mutual funds and EFTs

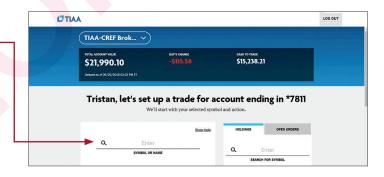
Step 1:

Once you have logged in at TIAA.org/cu, select quick links and then select *Trade*. (Note: if applicable, select—the account you wish to trade in.)



Step 2:

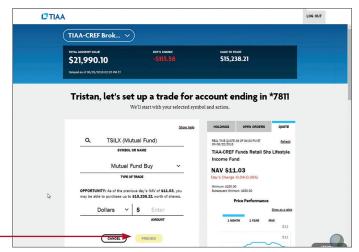
Enter the ticker symbol or name here and follow the online screen instructions to complete the transaction.



Step 3:

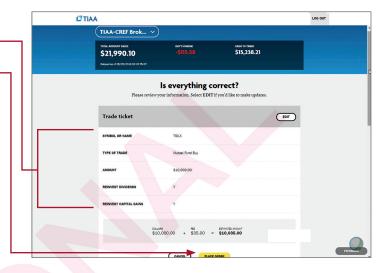
This example shown is for a mutual fund trade.

When all the required information is completed, select *Preview*.



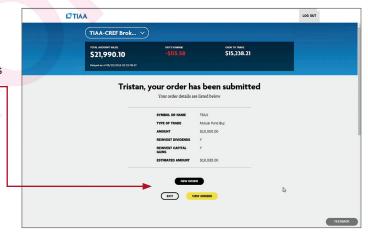
Step 4:

Confirm the information is correct and select Place Order.



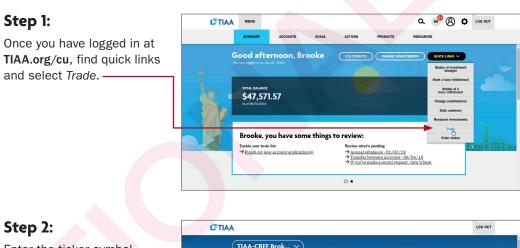
Step 5:

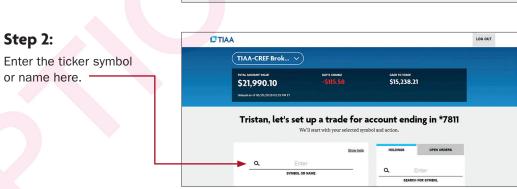
Your trade will be confirmed. From here, you can exit the screen, view the order status or place another order.



Mutual fund automatic investment/allocation plans

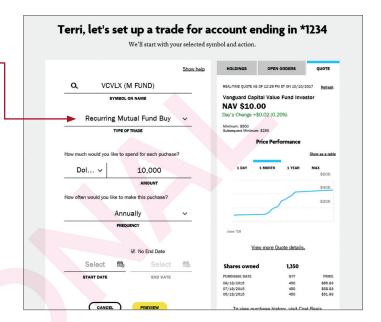
Once you own a mutual fund, you have the ability to add shares automatically to your account on an ongoing basis.





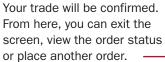
Step 3:

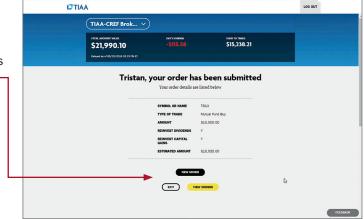
Select the Recurring Mutual Fund Orders tab. You'll then select either a recurring purchase or redemption.



Step 4: **□**TIAA LOG OUT TIAA-CREF Brok... V Confirm the information -CASH TO TRADE \$15,238.21 \$21,990.10 is correct and select Place Order. Is everything correct? your information. Select EDIT if you'd like to Trade ticket 00LIARS FEE ESTIMATED ANQUIT \$10,000.00 + \$35.00 = \$10,035.00

Step 5:



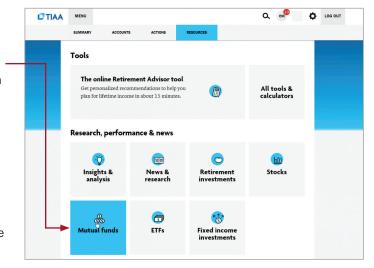


Research & performance

One key to building a strategic investing plan is to be educated on your investing options and the performance of each of those options.

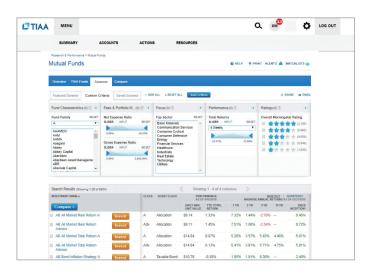
Through TIAA.org, you'll be able to educate yourself on funds, and stay up-to-date on current financial trends and financial news. Click on Resources and then select Mutual funds.

By selecting the Mutual funds option, you'll be able to see the various fund options that you can choose from to build your portfolio.



To research funds, you can click on the Screener tab. Here, you can set up criteria to find funds that support your strategy.

You also have the ability to select up to five funds and then click Compare to see how your options match up, how share classes compare to one another and more, all designed to help you become better educated and a more informed manager of your financial future.





View transaction history

Confirmations are sent for every trade. You can view your entire transaction history by logging in to your account at TIAA.org/cu, or through your monthly brokerage and quarterly combined retirement account statements.

Note: Trades placed before the investment trade cut-off time (2 p.m. MT) will be executed that business day. Transfers between the brokerage account and another account or fund available through the retirement plan(s) are subject to brokerage settlement periods and can take several business days to complete.

Frequently asked questions

Q: How do I move money from my brokerage account to the other core menu investment options?

A: To transfer between the brokerage account and another investment option available through the core menu, you must call a TIAA financial consultant at 800-927-3059. Moving funds from the brokerage account to the core menu cannot be done online.

Q: How can I take a distribution or withdrawal?

- A: Distributions or withdrawals from your brokerage account aren't made directly. To receive distributions or withdrawals from your brokerage account:
 - 1. Transfer the amount you wish to withdraw from your brokerage account to the core menu.
 - 2. Call a financial consultant at 800-927-3059 to request a withdrawal.

Q: Are there any fees?

A: If you open a brokerage account, you will be charged a commission on all applicable transactions based upon the fees outlined in the Customer Account Agreement or dictated by the terms of the fund. Please see the Fees section after these FAQs for more detailed information.

Q: Will my brokerage account be monitored by anyone besides me?

A: No. Unlike the plan-sponsored retirement accounts, it is the responsibility of each individual to monitor and manage their own self-directed brokerage account, TIAA.org provides tools that allow individuals to compare investment options, review available share classes and other factors so that you can make informed decisions.

Q: Will I receive confirmations of my trades?

A: Yes, a confirmation for every trade is sent to you according to your preferences. You can always view your transaction history or trade confirmations in the secure portion of **TIAA.org/cu** or on your monthly brokerage account statements.

Q: Are brokerage accounts available to foreign address participants?

A: No, TIAA Brokerage accounts are only available to enrolled plan participants with a permanent U.S. residential and mailing address.

Transaction fees

Transaction fees are charged in accordance with the TIAA Commission and Fee Schedule shown below.

TIAA Self-Directed Brokerage Account Customer Account Agreement

Not all fees apply or are pertinent to all employ	er-sponsored plans. See individual plan	for investment option details.		
	Online TIAA.org/brokerage	Automated Telephone System (ATS) 800-842-2252	Client Service Assistance 800-927-3059	
Equities and Exchange Traded Fun	ds			
Commissions and Fees	Equity and ETF Trades—\$7.95	\$35	\$55	
Equity and Transaction-Fee ETFs notes	 Fees shown reflect stock prices greater than \$1 per share. Orders to buy shares priced under \$1, restricted shares, foreign securities, privately held securities, shares without a market price or no bid/ask will not be accepted. Orders to sell shares priced under \$1 are handled via Client Service Assistance at the online commission rate above, based on eligibility. 			
No-Transaction Fee (NTF) ETFs	 NTF eligible ETFs will have a \$0.00 commission, regardless of order size or holding period. Any ETF shares purchased prior to January 26, 2018, and are now identified as a No Transaction Fee ETF will still be charged a commission when the shares are sold. 			
Financial Transaction Tax (FTT) Ordinary and ADR	 All opening transactions in FTT-eligible French companies will be subject to the French FTT at a rate of 0.30% of the total transaction cost. All opening transactions in FTT-eligible Italian companies will be subject to the Italian FTT at a rate between 0.10% - 0.20% of the total transaction cost. 			
ADR Agent Servicing Fee	Fee will generally range from \$0.01 - \$0.03 per share. Amounts will differ by ADR. Please refer to the ADR prospectus for specific fee and other information.			
Fixed Income				
	Bonds and CDs are available for purch	nase online, or for assistance call 8	800-927-3059.	
U.S. Treasury Securities				
New Issues (primary at auction)	\$50 per transaction			
Existing Issues (secondary already trading)	\$1 per \$1,000 face amount (\$50 minimum)			
Other Fixed Income				
Municipal Bonds, Government Agency Bonds, Unlisted (Over-the-counter, or OTC) Corporate Bonds, and Mortgage-backed Securities	TIAA may execute certain fixed-income transactions for your Account on either an agency or principal basis. If we execute on an agency basis, a \$50 + \$2 per bond commission will be charged. If we execute on a principal basis, we will sell a fixed-income product to you (or buy it from you), which we contemporaneously purchase (or sell) to a dealer. If so, the net compensation earned by TIAA will include a mark-up. If we sell a fixed-income product to you, the mark-up is the difference between the sales price to you and the price we pay to purchase the product from a dealer. If we buy a fixed-income product from you, the mark-up is the difference between the sales price to the dealer and the price we pay to purchase the security from you.			
Certificates of Deposit - New Issues	Purchase minimums of \$5,000, no co	mmission (interest rate reflects iss	uing bank's fee)	
Mutual Funds				
No-transaction-fee (NTF) funds	Minimum initial investment for mutual funds: The greater of either the listed amount in the fund's prospectus or \$500. Additional investments typically based on amount listed in the fund's prospectus, generally \$100. Purchases placed below the stated minimum amount will be charged the appropriate transaction fee. Different minimums may apply for managed accounts. Short-term redemption fee: \$50 minimum for shares held less than three months (waived for shares transferred from another brokerage firm or financial institution). Additional redemption fees may apply as set forth in each fund's prospectus. Dollar cost averaging transactions, no-fee; minimum transaction \$100.			
Transaction-fee (TF) funds	Minimum initial investment for mut prospectus or \$500. Additional inve generally \$100. Purchases placed it transaction fee. Different minimums Dollar cost averaging transactions,	nsaction fee, regardless of order size: \$35 per trade. imum initial investment for mutual funds: The greater of either the listed amount in the fund's spectus or \$500. Additional investments typically based on amount listed in the fund's prospectus, rerally \$100. Purchases placed below the stated minimum amount will be charged the appropriate saction fee. Different minimums may apply for managed accounts. lar cost averaging transactions, no-fee; minimum transaction \$100. hanges: \$8 per trade regardless of order size.		

TIAA Self-Directed Brokerage Account Customer Account Agreement

Options					
	Online TIAA.org/brokerage	Automated Telephone System (ATS) 800-842-2252	Client Service Assistance 800-927-3059		
Options	,				
Commissions and Fees	\$7.95 + \$2.00 per contract	\$35 + \$2.00 per contract	\$55 + \$2.50 per contract		
Options Exercise/Assignment	\$25	\$25	\$25		
Account Maintenance Fees					
Alternate Investment Transaction/Processing Fee	\$50				
Direct Registration System (DRS) Outgoing Transfer Fee	\$30 per security, per account				
Foreign Securities	\$75 for each order (not applicable to American Depositary Receipts) + commission				
Foreign Security Receive and Deliver Fee	\$75				
Post-Effective Reorganizations — Voluntary	\$75				
Preferred Stock Administrative Fee	\$50				
Reorganizations — Voluntary	\$25				
Safekeeping Fee for Physical Securities	\$2 per account, per position, per month				
Special Product Fee - Unregistered REITs	\$125 per position, charged at transfer and then annually				
Special Product Fee - Registered REITs	\$35 per position, charged at transfer and then annually				
Transfers — Accommodation*	\$80 per transfer				
Transfers — GNMA, Restricted, Legal*	\$65 per transfer				
Transfers — Outgoing Account*	\$50 per transfer				
Transfers — Outgoing Full Account*	\$50 per transfer, no charge for partial transfers				
Transfers — Register, Transfer and Ship*	\$80 per transfer, plus any third-party charges, including a DTCC charge of \$500				

For complete information about the brokerage account and program fees, read the TIAA Brokerage Account Customer Account Agreement or visit TIAA Brokerage forms at TIAA.org/public/brokerage/custsvce/forms.html. Additional fees and expenses apply to a continued investment in the funds and are described in the fund's current prospectus.





For questions about your brokerage account, please contact us at 800-927-3059.



This material is for informational or educational purposes only and does not constitute investment advice under ERISA. This material does not take into account any specific objectives or circumstances of any particular investor, or suggest any specific course of action. Investment decisions should be made based on the investor's own objectives and circumstances.

You should consider the investment objectives, risks, charges, and expenses carefully before investing. Please call 877-518-9161 for a prospectus that contains this and other information. Please read the prospectus carefully before investing.

Investment, insurance, and annuity products are not FDIC insured, are not bank guaranteed, are not bank deposits, are not insured by any federal government agency, are not a condition to any banking service or activity, and may lose value.

TIAA Brokerage, a division of TIAA-CREF Individual & Institutional Services, LLC, Member FINRA/SIPC, distributes securities. Brokerage accounts are carried by Pershing, LLC, a subsidiary of The Bank of New York Mellon Corporation, Member FINRA, NYSE, SIPC.

TIAA Brokerage reserves the right to change its fee and commission schedule at its discretion, subject to notification in accordance with applicable laws and regulations.

Some securities may not be suitable for all investors.

TIAA-CREF Individual & Institutional Services, LLC, Teachers Personal Investors Services, Inc., and Nuveen Securities, LLC, Members FINRA and SIPC, distribute securities products.

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