

A TIAA Company

TIAA-CREF FUNDS ACCOUNT APPLICATION

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Please send your signed and completed application to TIAA-CREF Funds per the Return Completed Forms section below or in the enclosed postage-paid business-reply envelope. Please call 800-223-1200, enter prompt 1, then prompt 2, with any questions, weekdays, 8 a.m. to 6 p.m. (ET).

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ACCOUNT

To help the government fight the funding of terrorism and money laundering activities, federal law requires all financial institutions to obtain, verify, and record information that identifies each person who opens an account.

What this means for you: When you open an account, we will ask for your name, address, date of birth, Social Security number and other information that will allow us to identify you (including a state-issued driver's license or other government-issued identification). This information will be verified to ensure the identity of all individuals opening a mutual fund account. Until you provide the information we need, we may not be able to open an account or effect any transactions for you.

account of effect any transactions for you.				
1. ACCOUNT REGISTRATION (REQUIRED) Please print or type	e. Check ONE box only.			
Individual Joint Account (Joint Owners have rights of survivorship unless you indicate otherwise.)	Transfer on Death (TOD) (select one) Individual Joint (add your beneficiary designation in section 11.) Estate			
Uniform Gifts to Minors (UGMA) or Uniform Transfers to Minors (UTMA) State Trusts (Please attach the initial page(s) of the trust agreement identifying the parties to the trust and the signature page(s). Foreign trusts are not permitted to have shareholder accounts.)				
If you are opening any of the accounts in the section below, you must con Ownership Certification in order for the account to be established. If this and return the TIAA-CREF Funds Legal Entity Beneficial Ownership Certification	applies, please go to TIAA.org/public/pdf/F40214.pdf to fill out			
Corporation (A copy of the certified articles of incorporation and business license of the corporation must be attached. Please also select S or C Corporation below.)	Statutory Trust (The initial page(s) of the trust agreement identifying the parties to the trust, the date, and the signature page(s) must be attached.)			
S Corporation C Corporation	Nonprofit, Foundation or Other 501(c)(3) (Copy of the articles of incorporation must be attached.)			
Limited Liability Company	Unincorporated Association			
Partnership (Copy of the partnership agreement must be attached.)				
Check below if exempt from verification due to:				
Financial institution regulated by a federal functional regulator	Bank regulated by a state bank regulator			
Publicly traded corporation Ticker/Symbol	Sole Proprietorship			
Name of Individual, Custodian (one per account), Entity, or Trust				
Prefix First Name	/II Last Name			
Name of Entity or Trust				
Social Security Number/ Taxpayer Identification Number Date of Birth (mmddyyyy)	Gender			
	Male Female			
Address (If the below address is a P.O. Box, you must also provide a street address)	City State Zip Code			
(Continued)				

TFDIA F11154 (9/23)



Address Street or P.O. Box (APO and FPO addresses will be accepted)	City State Zip Code
Are you an existing TIAA-CREF Funds Shareholder? Yes No	
If yes, please list ONE of your TIAA-CREF Funds' Account Numbers	
Citizenship For foreign accounts, one of the following must be provided: non-U.S.	citizen ID or passport number with country of issuance along with photocopy of ID.
U.S. Resident Non-U.S. Citizen Nonresident, Non-U.	S. Citizen (Specify country)
Non-U.S. Citizen ID or Passport Number	
Primary Phone Number Type	Secondary Phone Number Type
Mobile Home Business	Mobile Home Business
Alternate Phone Phone Number Type	Email Address
Mobile Home Business	
Broker-Dealer	Branch Number (if known) Representative Number (if known)
Check One:	
Name of Joint Owner, Minor (one per account) Trustee(s)	Entity (Authorized Signer) Executor
For additional trustees, or executors, please attach a separate piece	of paper.
Prefix First Name	MI Last Name
Role of Entity - Authorized Signer	
Social Security Number/ Taxpayer Identification Number Date of Birth (mm/dd/yyyy)	Gender
	Male Female
(Continued)	



Joint Owner, Minor, Truste	e(s) Mailing Address (Only required if different f	from owner's street address)		
Address Street or P.O. Box	(APO and FPO addresses will be accepted)	City	State	Zip Code
Address (If the above address	is a P.O. Box, you must also provide a street address	City	State	Zip Code
	nts, one of the following must be provided: non-U.S. clon-U.S. Citizen Nonresident, Non-U.S.		ntry of issuance along with ph	otocopy of ID. (Specify country)
Non-U.S. C	Citizen ID or Passport Number			
Primary Phone Number	Phone Number Type	Secondary Phone Number	Phone Number Type	
	Mobile Home Business		Mobile Hom	e Business
Alternate Phone	Phone Number Type	Email Address		
	Mobile Home Business			



2. INITIAL INVESTMENT

Be sure to read the current prospectuses carefully before investing. The minimum investment per fund is \$2,500 unless you plan to
participate in our Automatic Investment Plan. (See Section 9.) The minimum initial investment for a UGMA or UTMA account is also \$2,500
per fund. Please indicate below the amount to be invested per fund.

DI LIL COLL				
Please check here to set this	allocation for future	investments unless	other instructions a	ire received.

RETAIL CLASS						
FUND NAME (FUND CODE)	AMOUNT	PERCENT	FUND NAME (FUND CODE)	AMOUNT	PERCENT	
Bond Index (91)	\$, c	% Lifestyle Conservative (78)	\$		%
Core Bond (66)*	\$	S S	% Lifestyle Growth (93)	\$		%
Core Impact Bond (45)*	\$		% Lifestyle Income (77)	\$		%
Core Plus Bond (96)*	\$		% Lifestyle Moderate (79)	\$		%
Emerging Markets Debt (2794)	\$		Managed Allocation (99)	\$		%
Emerging Markets Equity (67)	\$		% Mid-Cap Growth (86)	\$		%
Emerging Markets Equity Index (69)	\$		% Mid-Cap Value (87)	\$		%
Equity Index (65)	\$	S S	Money Market (63)	\$		%
Green Bond (2608)	\$, c	Quant International Small-Cap Equity (2966)	\$		%
Growth & Income (64)	\$		% Quant Small-Cap Equity (88)	\$		%
High-Yield (95)	\$		% Quant Small/Mid-Cap Equity (2956)	\$		%
Inflation-Linked Bond (90)	\$		% Real Estate Securities (89)	\$		%
International Bond (2957)	\$		% Short Duration Impact Bond (2609)	\$		%
International Equity (61)	\$		% Short-Term Bond (97)	\$		%
International Opportunities (49)	\$, c	% Short-Term Bond Index (2797)	\$		%
Large-Cap Growth (68)	\$		% Social Choice Equity (62)	\$		%
Large-Cap Value (85)	\$		Social Choice International Equity (2762)	\$		%
Lifecycle Retirement Income (70)	\$		Social Choice Low Carbon Equity (2763)	\$		%
Lifestyle Aggressive Growth (94)	\$		5-15 Year Laddered Tax-Exempt Bond (98)	\$		%
			Total Amount or Percentage	\$		%

 ${}^*\!\text{The following fund name changes are effective March 1, 2020:}$

Formerly: Bond; Renamed: Core Bond

Formerly: Bond Plus; Renamed: Core Plus Bond

Formerly: Social Choice Bond; Renamed: Core Impact Bond

(continued)



Please indicate payment method below (U.S. do	ollars only):	Wire Dat	te (mm/dd/yyyy)			
Check made payable to TIAA-CREF Funds Wire assets directly. (See prospectuses for instructions.)						
Payment from other TIAA account: (Payments u	nder \$2,500 will be returned.)					
Existing Mutual Fund account number	(Complet	te form F11416 for transfers: TIAA.o	rg/public/pdf/F11416.pdf.)			
Existing other TIAA account (Please complete required paperwork and direct funds to the new account.)						
Please note: Third-party checks can be accepted \$10,000 or less. All purchases must be in U.S. do in the following forms: traveler's checks, money o Bitcoin), or starter checks. TIAA-CREF Funds will r	ollars and all checks must be d rders, credit card convenience	drawn on U.S. banks. TIAA-CRI checks, cash, counter checks	EF Funds will not accept payment s, virtual currency (such as			
3. COST BASIS ELECTION METHOD	(CHOOSE ONE.)					
Please select one of the cost basis determination Average Cost will be recorded as your Cost Basis secondary cost basis method; otherwise, you will	Method. If you select the Spe	ecific Lot Identification metho	d, you are required to select a			
ACST – Average Cost: A method that calcular amount of the shares; the dollar amount is a separately from noncovered securities, as if	divided by the number of share	•				
FIFO - First In First Out: A standing order to	sell the oldest shares in the a	account first.				
LIFO - Last In First Out: A standing order to	sell the newest shares in the a	account first.				
HCFO – High Cost First Out: A standing order	er to sell the most expensive sh	hares in the account first.				
LCFO - Low Cost First Out: A standing order	to sell the least expensive sha	ares in the account first.				
LGUT - Loss/Gain Utilization: A method that conjunction with a holding period.	: evaluates losses and gains an	d then systemically selects lo	ts based on that gain/loss in			
SLID - Specific Lot Identification: The share	holder designates specific sha	ares for each redemption.				
Secondary Reporting Method Required (SLI	D only)					
4. DUPLICATE STATEMENTS						
Complete this section if you wish someone else	• •	ements.				
Please send a duplicate copy of my statement to First Name		MI Last Name				
riist ivaille		IVII Last Name				
Street Address	City	у	State Zip Code			
Daytime Telephone Number						
Dayanic telephone Number						



5. TELEPHONE OPTIONS	
These services allow you to invest, redeem or exchange by telephone of access to your account through the Automated Telephone Service (ATS These services will be automatically added to your account unless you	S) and the Internet. See the TIAA-CREF Funds prospectuses for details.
Telephone Purchase No	Telephone Redemption No
This option lets you invest by telephone with payments transferred by Automated Clearing House (ACH) from your designated bank account to your existing mutual fund account (\$100 minimum). Please complete Section 8.	This option lets you redeem shares by telephone. The proceeds may be mailed to your account address, transferred to your bank by ACH, or wired to your bank account (\$5,000 minimum for wire). For ACH or wire transactions, please complete Section 8.
Telephone Exchange No	
This option permits exchanges among TIAA-CREF Funds with the same account registrations (\$50 minimum to an existing account/\$2,500 minimum to a new account or UGMA/UTMA account).	
6. DISTRIBUTION OPTIONS	
Haling and the second s	and the state of t
Unless you choose an option below, all dividends and capital gains will be	e reinvested. See the prospectuses for other available distribution options.
	ddress on Record Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.)
	ddress on Record Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.)
Dividends in Cash Capital Gains in Cash Check to A	Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.) ins will automatically use the same method.
Dividends in Cash Capital Gains in Cash Check to A Note: Whatever option is selected for dividends, short-term capital gai 7. CHECK WRITING PRIVILEGES—SIGNATURE CAR For Money Market Fund only: Complete this section for check writing	Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.) Ins will automatically use the same method. D FOR MONEY MARKET FUND ONLY privileges. All Shareholders must sign below. However, only one 50 or more on your TIAA-CREF Money Market Fund. A checkbook will be
Dividends in Cash Capital Gains in Cash Check to A Note: Whatever option is selected for dividends, short-term capital gain 7. CHECK WRITING PRIVILEGES—SIGNATURE CAR For Money Market Fund only: Complete this section for check writing signature will be required on each check. You can write checks for \$25 mailed to the address on the account 10 days after the account has be Please note: You cannot write a check to redeem shares from the Mor	Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.) ins will automatically use the same method. D FOR MONEY MARKET FUND ONLY privileges. All Shareholders must sign below. However, only one 50 or more on your TIAA-CREF Money Market Fund. A checkbook will be been established.
Dividends in Cash Capital Gains in Cash Check to A Note: Whatever option is selected for dividends, short-term capital gain 7. CHECK WRITING PRIVILEGES—SIGNATURE CAR For Money Market Fund only: Complete this section for check writing signature will be required on each check. You can write checks for \$25 mailed to the address on the account 10 days after the account has be Please note: You cannot write a check to redeem shares from the Mor investment plan payment to purchase shares in the fund, or if your Mot to support the redemption check.	Automated Clearing House (ACH) to Bank on File (Section 8 must be completed.) Ins will automatically use the same method. D FOR MONEY MARKET FUND ONLY privileges. All Shareholders must sign below. However, only one 50 or more on your TIAA-CREF Money Market Fund. A checkbook will be been established. The Market Fund for 10 days after sending us a check or automatic oney Market Fund Account does not otherwise have a sufficient balance ount rules, and to any conditions and limitations on redeeming shares

Your Signature

Your Signature



Today's Date (mm/dd/yyyy)

Today's Date (mm/dd/yyyy)

PLEASE SIGN HERE

Print Name of Owner, Custodian, or Trustee, etc.

Print Name of Joint Owner or Co-Trustee, etc. (if any)

Type of Account Checking				
	Savings			
Name of Primary Bank Account Owr	ner	Name of Joint Bank Ac	count Owner	
Bank Name		ABA Routing Number		
Bank Phone Number		Bank Account Number		
ATTACH A VOIDED BANK	CHECK OR PREPRINTED SAVIN	IGS DEPOSIT SLIP. This will	ensure accurate bank infor	mation.
9. AUTOMATIC INVESTMENT of you would like to participate in the below the amount to invest, the frequenceur on both the 1st and the 15th, work (Please also complete Section 8.) FUND NAME AND FUND CODES ARE	e TIAA-CREF Funds Automatic Inv uency, the first month to begin d while monthly investments occur	ebiting your account and the	e time interval. Semimonthly	investments
FUND NAME		AMOUNT SEMI/	MONTHLY START MONTH	1 ST /15 [™] MONTI
	\$			
	\$			
	\$			
	\$			
10. TRUSTED CONTACTS (OPTIONAL)			
\	•			
Trusted contacts are people you kno questions about your account, your respective contacts for each individu	well-being, or if we suspect you	are the victim of fraudulent	activity. If this is a joint acco	ount, please add
Trusted contacts are people you kno questions about your account, your respective contacts for each individu FOR OWNER	well-being, or if we suspect you	are the victim of fraudulent	activity. If this is a joint acco	ount, please add
Trusted contacts are people you kno questions about your account, your respective contacts for each individu FOR OWNER First Name of Contact Person	well-being, or if we suspect you ual. A co-owner of the account s	are the victim of fraudulent	activity. If this is a joint accoract. See Section 12 for mor	ount, please add
Trusted contacts are people you kno questions about your account, your respective contacts for each individu FOR OWNER First Name of Contact Person	well-being, or if we suspect you ual. A co-owner of the account s	are the victim of fraudulent	activity. If this is a joint accoract. See Section 12 for mor	ount, please add
For owner Trusted contacts are people you know questions about your account, your respective contacts for each individual FOR OWNER First Name of Contact Person Date of Birth (mm/dd/yyyy)	well-being, or if we suspect you ual. A co-owner of the account s Last Name	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship	ount, please add
For owner Trusted contacts are people you know questions about your account, your respective contacts for each individual FOR OWNER First Name of Contact Person Date of Birth (mm/dd/yyyy)	well-being, or if we suspect you ual. A co-owner of the account s Last Name	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship	ount, please add e information.
For owner of Contact Person Date of Birth (mm/dd/yyyy) Mailing Address	well-being, or if we suspect you ual. A co-owner of the account s Last Name	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship	ount, please add e information.
Trusted contacts are people you knot questions about your account, your respective contacts for each individu FOR OWNER First Name of Contact Person Date of Birth (mm/dd/yyyy) Mailing Address	well-being, or if we suspect you ual. A co-owner of the account s Last Name	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship	ount, please add e information.
Trusted contacts are people you knot questions about your account, your respective contacts for each individu FOR OWNER First Name of Contact Person Date of Birth (mm/dd/yyyy) Mailing Address	well-being, or if we suspect you ual. A co-owner of the account s Last Name Phone Number	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship Address	ount, please ade
Trusted contacts are people you know questions about your account, your respective contacts for each individual FOR OWNER First Name of Contact Person Date of Birth (mm/dd/yyyy) Mailing Address IF JOINT OWNER First Name of Contact Person	well-being, or if we suspect you ual. A co-owner of the account s Last Name Phone Number	are the victim of fraudulent should not be a trusted conf	activity. If this is a joint accordance. See Section 12 for more Relationship Address State Relationship	ount, please add e information.
Trusted contacts are people you kno questions about your account, your respective contacts for each individu FOR OWNER	well-being, or if we suspect you ual. A co-owner of the account s Last Name Phone Number Last Name	are the victim of fraudulent should not be a trusted confidence of the confidence of	activity. If this is a joint accordance. See Section 12 for more Relationship Address State Relationship	ount, please add e information.

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11. DESIGNATE YOUR BENEFICIARIES

NOTE: Applicable only to Individual or Joint account types, indicated in section 1.

If there are no surviving contingent beneficiaries at the time of your death, we will transfer ownership of your account to your estate.

When designating beneficiaries, you consent to establishing a Transfer on Death account, and we will transfer ownership of your account to your primary beneficiaries upon your death. Your primary beneficiaries will share equally in your account unless you specify different percentages below. If a primary beneficiary predeceases you, his or her share shall be divided proportionately among the surviving primary beneficiaries. In addition, we will transfer ownership of your account to your contingent beneficiaries only if there are no surviving primary beneficiaries at the time of your death. If a beneficiary should predecease you and you want that beneficiary's share to go to his or her lineal descendants, check "per stirpes." Otherwise, a beneficiary's rights end with the death of that beneficiary, and the estate of a predeceased beneficiary has no claim to or interest in your account. If you do not check "per stirpes" and the beneficiary predeceases you, their share will be divided among surviving beneficiaries (if any).

All percentages must total 100%.

PRIMARY BENEFICIARY(IES)

I designate the following as my Primary Beneficiary(ies) to receive any amounts due at my death. (Please take note that the Custodian or a joint owner may not be designated as the Beneficiary.) For additional beneficiaries, please attach a separate piece of paper.

Lineal Descendants Per S	tirpes				
Yes, add Per Stirpes (For every beneficiary)				
PRIMARY BENEFICIARY 1					
Prefix First Name		MI	Last Name		
Social Security Number	Date of Birth (mm/dd/yyyy)		Relationship		Percent
Custodian (If the beneficiary i	is a minor)		Relationship		%
			, , , , , , , , , , , , , , , , , , ,		
Address Street or P.O. Box	(APO and FPO addresses will be accepted.)	City		State	Zip Code
Address (If the above address	is a P.O. Box, you must also provide a street address.) City		State	Zip Code
Primary Phone Number	Phone Number Type	Secondary P	hone Number Phor	ne Number Type	e
	Mobile Home Business			Mobile Ho	ome Business
Alternate Phone	Phone Number Type	Email Addres	S		
	Mobile Home Business				
(Continued)					

PRIMARY BENEFICIARY 2	
Prefix First Name	MI Last Name
Social Security Number Date of Birth (mm/dd/yyyy)	Relationship Percent
Custodian (If the beneficiary is a minor)	Relationship
Address Street or P.O. Box (APO and FPO addresses will be accepted.)	City State Zip Code
Address (If the above address is a P.O. Box, you must also provide a street address	s.) City State Zip Code
Primary Phone Number Phone Number Type	Secondary Phone Number Phone Number Type
Mobile Home Business	Mobile Home Business
Alternate Phone Phone Number Type	Email Address
to receive any amounts due. (Please note that the Custodian may no Lineal Descendants Per Stirpes Yes, add Per Stirpes (For every beneficiary) CONTINGENT BENEFICIARY 1 Prefix First Name	ot be designated as the Beneficiary.) MI Last Name
THE	
Social Security Number Date of Birth (mm/dd/yyyy)	Relationship Percent %
Custodian (If the beneficiary is a minor)	Relationship
Address Street or P.O. Box (APO and FPO addresses will be accepted.)	City State Zip Code
Address (If the above address is a P.O. Box, you must also provide a street address	s.) City State Zip Code
Primary Phone Number Phone Number Type	Secondary Phone Number Phone Number Type Mobile Home Business
Alternate Phone Phone Number Type Mobile Home Business	Email Address

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CONTINGENT BENEFICIAR	Y 2				
Prefix First Name		MI	Last Name		
Social Security Number	Date of Birth (mm/dd/yyyy)		Relationship		Percent %
Custodian (If the beneficiary	is a minor)		Relationship		
Address Street or P.O. Box	(APO and FPO addresses will be accepted.)	City		State	Zip Code
Address (If the above address	is a P.O. Box, you must also provide a street address.)	City		State	Zip Code
Primary Phone Number	Phone Number Type	Secondary Ph	none Number	Phone Number Type	e
	Mobile Home Business			Mobile Ho	ome Business
Alternate Phone	Phone Number Type	Email Address	S		
	Mobile Home Business				
					Percent (Total 100%)

Note: If you reside in a community property state, you may need your spouse's consent to your beneficiary designations. You may wish to seek legal advice.



12. SIGNATURES—YOUR SIGNATURE(S) MUST APPEAR TO ESTABLISH THE ACCOUNT

By signing this form, I certify that I have received, read, and agree to the terms of the prospectuses for the TIAA-CREF Funds. I have the full authority and legal capacity to purchase shares of the TIAA-CREF Funds, am of legal age in my state to purchase such shares, and believe each investment is suitable.

I authorize TIAA-CREF Funds and their agents to act for any service authorized on this Account Application on any instructions that they believe to be genuine and that are received from me or any person claiming to act as my representative who can provide my account registration. The TIAA-CREF Funds use reasonable procedures (including Shareholder identity verification) to confirm that instructions given by telephone are genuine and are not liable for acting on these instructions. If these procedures are not followed, the TIAA-CREF Funds may be liable for losses due to unauthorized or fraudulent transactions.

PROSPECTUS AND OTHER DOCUMENTS ACKNOWLEDGMENT

Please check the box below acknowledging your receipt of the following documents:

Prospectuses and Product Disclosures for the investment options available to you (TIAA.org/public/prospectuses)

TIAA Privacy Policy (TIAA.org/public/support/privacy-policy)

TIAA Business Continuity Policy (TIAA.org/public/about-tiaa/business-continuity)

Please check this box ▶
to acknowledge
electronic receipt of
prospectuses and other
required documents.

I acknowledge that I consent to receiving and have received the above-referenced documents through TIAA's
website. I further acknowledge that I am able to access these documents on the website. I understand that
this acknowledgment applies only to this initial account application.

By signing this form, investor(s) acknowledges that neither TIAA-CREF Funds nor any Teachers Advisors, LLC affiliate or service provider to TIAA-CREF Funds has provided the investor(s) with advice, recommendations or suggestions as to any specific investment decisions. Investors in TIAA-CREF Funds are urged to consult their own professional advisors before making investment-related decisions, including but not limited to those related to transfer or rollover from retirement plans, purchase or sale of investments, selection or retention of investment managers or selection of account beneficiaries.

To select this acknowledgment and consent, you must have access to the website noted above. In either case, you must also be able to download, view and print the documents. You will need Adobe Reader to view and print electronic PDF documents. If you don't have Adobe Reader, go to adobe.com to download a free copy. To request assistance with accessing these documents electronically, please contact us toll-free at 800-842-2273. You understand and acknowledge that accessing documents electronically may involve additional costs, including but not limited to subscription access fees from an internet service provider and printing costs.

Paper versions of the above documents can be ordered, both now and in the future, by calling toll-free 877-518-9161 or by going to TIAA.org. If you are unable to acknowledge that you have received and accessed these documents on the website, please call 877-518-9161 for paper prospectuses at no charge.

Note: Unless indicated above, I acknowledge that I have received paper copies of the above-referenced documents.

- I agree that the TIAA-CREF Funds can redeem shares from my account(s) to reimburse a Fund for any loss due to nonpayment or lack of money.
- I understand that for joint owner accounts, "I" refers to all Shareholders, and each of the Shareholders agrees that any Shareholder has authority to act on the account without notice to the other Shareholders. TIAA-CREF Funds, in its sole discretion, and for its protection, may require the written consent of all Shareholders prior to acting upon the instructions of any Shareholder.

Corporations or other entities must submit an original or certified resolution authorizing that the individual signing this form has the legal capacity to sign and act on behalf of the corporation/entity.

Trustee(s) Certification: I am/We are the currently acting Trustee(s) and am/are authorized by the trust agreement to purchase shares of the TIAA-CREF Funds. All services are subject to conditions set forth in the TIAA-CREF Funds Prospectuses.

Note: Trustee(s) must immediately notify TIAA-CREF Funds if the trust becomes a foreign trust.

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This paragraph is only applicable if you added a Trusted Contact in Section 10. I hereby authorize TIAA-CREF Funds and its affiliates ("TIAA-CREF Funds") to contact the person(s) I have listed above ("Contact") in the event TIAA-CREF Funds has questions or concerns regarding my ability to handle my financial affairs (due to health-related matters or otherwise), potentially harmful financial transactions in my accounts or my whereabouts. In order to address any such questions or concerns, when speaking to my Contact, TIAA-CREF Funds is authorized to: i. Share with the Contact nonpublic information about me and all of my investments/accounts/products/contracts held at TIAA-CREF Funds and its affiliates now or in the future (or any other financial information I may have provided to TIAA-CREF Funds), regardless of any previous election I have made under federal, state or other law regarding the sharing of such information; ii. Share with the Contact any concerns and details surrounding my potential financial exploitation; iii. Confirm with the Contact the specifics of my current contact information and/or health status; iv. Discuss with the Contact whether any other person has been designated to act on my behalf (through power of attorney, Executor, Trustee or legal guardian or otherwise); and v. Share information obtained from the Contact with its affiliates. I understand this authorization will remain in effect until I notify TIAA-CREF Funds in writing that I am revoking or amending such authority and TIAA-CREF Funds acknowledges the receipt of such revocation and/or amendment. Except as may be required by FINRA Rule 2165, TIAA-CREF Funds is under no obligation to speak to, write to or otherwise interact with the Contact, TIAA-CREF Funds is not responsible for any action taken by the Contact, and TIAA-CREF Funds will not direct the Contact to take any particular action on my behalf. TIAA-CREF Funds suggests that the named Contact(s) not be someone authorized to transact business on the account, or who is already otherwise able to receive the information described above. By signing, I am affirming that the Trusted Contact(s) listed in this form are at least 18 years old and, to the best of my knowledge, do not work for TIAA-CREF Funds or its affiliates. If I am a nonresident non-citizen of the United States, I acknowledge that the below tax certifications do not apply to me. I have provided

TIAA with an IRS Form W-8BEN within the last three years or will submit a W-8BEN prior to requesting a distribution from this account. I acknowledge that I must have a W-8BEN on file to request a distribution.

Substitute W-9 Request for Taxpayer Identification Number and Certification

Under penalties of perjury, I certify that: (1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and (2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and (3) I am a U.S. citizen or other U.S. person (as defined in the form W-9 instructions); and (4) the FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Signature (Owner, Custodian, Trustee, Executor, Entity (Authorized signer))	Title or Capacity	Today's Date (mm/dd/yyyy)
		/ 20
Signature (Joint Owner, Co-Trustee, Co-Executor, etc.)	Title or Capacity	Today's Date (mm/dd/yyyy)
		/ / 20

RETURN COMPLETED FORM(S) TO:

Please return ALL numbered pages, including any pages you did not need to complete.

STANDARD MAIL: **OVERNIGHT:** TIAA-CREF Funds TIAA-CREF Funds

P.O. Box 219227 430 W. 7th Street, Suite 219227 Kansas City, MO 64121-9227 Kansas City, MO 64105-1407



Please Sign Here





A TIAA Company

To get started, simply complete the following sections, and return with the appropriate documentation as listed below. Please send your signed and completed form to TIAA-CREF Funds per the Return Completed Forms section below or in the enclosed customer reply envelope. If you have any questions regarding completion of this form, please call 800-223-1200, enter prompt 1, then prompt 2, weekdays, 8 a.m. - 6 p.m. (ET).

IMPORTANT INFORMATION ABOUT PROCEDURES FOR OPENING A NEW ENTITY ACCOUNT

To help the government fight the funding of terrorism and money laundering activities, federal law requires all financial institutions to obtain, verify and record information about the "beneficial owners" of business applicants. Businesses can be abused to disguise involvement in terrorist financing, money laundering, tax evasion, corruption, fraud, and other financial crimes. Requiring the disclosure of key individuals who own or control a legal entity (i.e., the beneficial owners) helps law enforcement investigate and prosecute these crimes.

What this means for you: This form requires you to provide the name, address, date of birth and Social Security number (or passport number or other similar information, in the case of non-U.S. persons) for the such individuals (i.e., the beneficial owners). This information will be verified to ensure the identity of all individuals opening a mutual fund account. Until you provide the information we need, we may not be able to open an account or effect any transactions for you.

DEFINING OWNERSHIP

- Beneficial owner: Any natural person who, directly or indirectly, owns 25% or more of the legal entity customer.
- Control person: An individual with significant responsibility to control, manage, or direct the legal entity. This includes a member of the organization with control (including chief executive officer, chief financial officer, chief operating officer, managing member, general partner, president, vice president, or treasurer) and a controlling stake in the organization.

This form requires you to provide the information mentioned above for all of the entity's beneficial owners, including individuals in a control role in the organization.

The number of individuals that satisfy this definition of "beneficial owner" may vary. Under Section 3, depending on the factual circumstances, up to four individuals (but as few as zero) may need to be identified. Regardless of the number of individuals identified under Section 3, you must provide the identifying information of one individual under Section 2. It is possible that in some circumstances, the same individual might be identified under both sections (e.g., the president of Acme, Inc., who is a controlling person may also be a beneficial owner by holding 30% equity interest in the company). Thus, a completed form will contain the identifying information of at least one individual under Section 2, and up to four individuals in Section 3.

Please note this form must be completed along with the appropriate TIAA-CREF Funds Account Application or Adoption Agreement.

Please contact 800-223-1200, enter prompt 1, then prompt 2, if you need assistance obtaining one of these forms:

- TIAA-CREF Funds Account Application (F11154)
- TIAA-CREF Funds Account Application (Non-Retail Class Only) (F11488)
- TIAA-CREF Funds Account Application Advisor Funds (F11624)
- TIAA-CREF Funds Traditional and Roth IRAs New Account Form/Adoption Agreement (F11153)

RETURN COMPLETED FORM(S) TO:

Please return ALL numbered pages, including any pages you did not need to complete.

STANDARD MAIL: OVERNIGHT: TIAA-CRFF Funds TIAA-CRFF Funds

P.O. Box 219227 430 W. 7th Street, Suite 219227 Kansas City, MO 64121-9227 Kansas City, MO 64105-1407





TIAA-CREF FUNDS LEGAL ENTITY BENEFICIAL OWNERSHIP CERTIFICATION FORM

Page 1 of 3

1. INDIVIDUAL OPENING THE ACCOUNT OF	N BEHALF	OF THE LEGAL	ENTITY (REQU	JIRED)	
A. NAME AND TITLE OF NATURAL PERSON OPENING THE	ACCOUNT (Mu	st provide signature	e in box under Certif	ication Se	ction 4)
Prefix First Name		MI Last Name			
Social Security Number/ Taxpayer Identification Number Date of B	irth (mmddyyyy)		Entity Role		
Mailing Address		City		State	Zip Code
B. LEGAL ENTITY INFORMATION (for which the Account is Name of Entity	being opened)				
Entity's Mailing Address		City		State	Zip Code
Please check this box if you are updating the informa and fill in the existing account number.	tion in Section	2 or Section 3,	Acco	unt Numbe	er
2. CONTROL PERSON (REQUIRED)					
An individual must be named here.					
Name of Control Person (First, MI, Last)	Date of Birt	h (mm/dd/yyyy)	Social	Security N	lumber
Residential Address		City		State	Zip Code
Citizenship For foreign owners, one of the following must be provided	: Alien ID or passp	ort number with country	of issuance along with a		
U.S. Resident Alien Nonresident Alien		(Specify count	ry)		



$\textbf{3. BENEFICIAL OWNER INFORMATION} \; (\mathsf{REQUIRED})$

Any individual who, directly or indirectly, owns 25% or uthis definition, please write "Not Applicable.")	more of the equity interest of the legal entit	ty named above. (If no individual meets
A. Name (First, MI, Last)	Date of Birth (mm/dd/yyyy)	Social Security Number
Residential Address	City	State Zip Code
Citizenship For foreign owners, one of the following must be pro		suance along with a photocopy of the ID. Alien ID or Passport Number
U.S. Resident Alien Nonresident Alie		·
B. Name (First, MI, Last)	Date of Birth (mm/dd/yyyy)	Social Security Number
Residential Address	City	State Zip Code
Citizenship For foreign owners, one of the following must be produced by U.S. Resident Alien Nonresident Alien		suance along with a photocopy of the ID. Alien ID or Passport Number
C. Name (First, MI, Last)	Date of Birth (mm/dd/yyyy)	Social Security Number
Residential Address	City	State Zip Code
Citizenship For foreign owners, one of the following must be pro		suance along with a photocopy of the ID. Alien ID or Passport Number
U.S. Resident Alien Nonresident Alie		·
D. Name (First, MI, Last)	Date of Birth (mm/dd/yyyy)	Social Security Number
Residential Address	City	State Zip Code
Citizenship For foreign owners, one of the following must be pro		suance along with a photocopy of the ID. Alien ID or Passport Number
U.S. Resident Alien Nonresident Alie	en (Specify country)	



4.	CERTIFICATION	(REOUIRED)
		(

l hereby certify, as the natural person opening the account, to the best of my knowledge, that the information provided above is complete and correct. Further, I agree to notify TIAA-CREF Funds immediately in writing of any changes in the beneficial ownership interest of the above referenced organization.

By signing this form, investor(s) acknowledges that neither TIAA-CREF Funds nor any Teachers Advisors, LLC affiliate or service provider to TIAA-CREF Funds has provided the investor(s) with advice, recommendations or suggestions as to any specific investment decisions. Investors in TIAA-CREF Funds are urged to consult their own advisors before making investment-related decisions, including but not limited to, those related to transfer or rollover from retirement plans, purchase or sale of investments, selection or retention of investment managers, or selection of account beneficiaries.

Under penalties of perjury, I certify that: (1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and (2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and (3) I am a U.S. citizen or other U.S. person; and (4) the FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

PRIMARY AUTHORIZED INDIVIDUAL

Your Signature	Today's Date (mm/dd/yyyy)
	/ 20

CHECKLIST

Remember to:

- Complete Section 1 with individual and entity information.
- Complete Section 2 with controlling party information.
- Complete Section 3 with beneficial owner information.
- Complete the certification in Section 4.
- Complete the appropriate new Account Application and Adoption Agreement and mail in with this form.
- Include any supporting documentation required.
- Make a copy of this form for your records.
- Please contact TIAA-CREF Funds with any questions, at 800-223-1200, enter prompt 1, then prompt 2, weekdays, 8 a.m. 6 p.m. (ET).

