



Important Instructions for Completing This Form

Schwab.com | **1-800-435-4000** (inside the U.S.) | **+1-415-667-8400** (outside the U.S.) | **1-888-686-6916** (multilingual services)

- Please complete this form, sign it, and return it to Schwab. You can either complete it online or print a copy and fill it out by hand.
- If you are opening a new account, be sure to enclose any accompanying materials (e.g., new account documents or a check for an initial deposit) when you return the form.
- If you have any questions, call us at 1-800-435-4000.

Return Instructions

Return the signed, completed form to your nearest Schwab branch (visit schwab.com/branch for locations) or mail it to any of the following addresses:

Regular Mail

Charles Schwab & Co., Inc.
Attn: IS Document Control
P.O. Box 982600
El Paso, TX 79998-2600

Overnight Mail

Charles Schwab & Co., Inc.
Attn: IS Document Control
1945 Northwestern Drive
El Paso, TX 79912

Regular Mail

Charles Schwab & Co., Inc.
Attn: IS Document Control
P.O. Box 628291
Orlando, FL 32862-8291

Overnight Mail

Charles Schwab & Co., Inc.
Attn: IS Document Control
1958 Summit Park Dr., Ste. 200
Orlando, FL 32810

ADA

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CC0012384 (0615-4165) ELC37185-04 (05/15)



Education Savings Account (ESA) Application

www.schwab.com | 1-800-435-4000 (inside the U.S.) | +1-415-667-5009 (outside the U.S.) | 1-888-686-6916 (multilingual services)

- \$1,000 minimum deposit required to open an account, or if you establish a monthly transfer of at least \$100 through either Direct Deposit or Schwab MoneyLink®
- Complete, sign, date and return the application to Schwab.

1. Account Information

Complete all sections below. We respect your privacy. Charles Schwab & Co., Inc. ("Schwab") will use the information you provide to open and service your account, communicate with you, and provide information about products and services. Read about Schwab's privacy policy at www.schwab.com/privacy. As required by federal law, Schwab will use the information provided below to verify your identity.

Designated Beneficiary/Minor Information (Account Holder)

Name (First)		(Middle)	(Last)	
Home/Legal Street Address (no P.O. boxes)		City	State	Zip Code
Mailing Address (if different from above; P.O. boxes may be used)		City	State	Zip Code
Home Telephone Number ()	Business Telephone Number ()	Cellular Telephone Number ()		
Social Security/Tax ID Number		Date of Birth (mm/dd/yyyy)		
Mother's Maiden Name		Is designated beneficiary known by any other name? Specify:		
ID Number	<input type="checkbox"/> Driver's License <input type="checkbox"/> State <input type="checkbox"/> Passport		State/Country of Issuance	Expiration Date (mm/dd/yyyy)
Country(ies) of Citizenship (Must list all.) <input type="checkbox"/> USA <input type="checkbox"/> Other: _____			Country of Legal Residence <input type="checkbox"/> USA <input type="checkbox"/> Other: _____	

Securities industry regulations require that we collect the following information:

Employment Status (Select one only.) <input type="checkbox"/> Employed <input type="checkbox"/> Self-Employed <input type="checkbox"/> Retired <input type="checkbox"/> Homemaker <input type="checkbox"/> Student <input type="checkbox"/> Not Employed	Employer Name/Business Name
Occupation (If you selected "Employed" or "Self-Employed," select one option that best describes your occupation.)	
<input type="checkbox"/> Business Owner/Self-Employed	<input type="checkbox"/> Financial Services/Banking Professional
<input type="checkbox"/> Executive/Senior Management	<input type="checkbox"/> Information Technology Professional
<input type="checkbox"/> Medical Professional	<input type="checkbox"/> Other Professional
<input type="checkbox"/> Legal Professional	<input type="checkbox"/> U.S. Government Employee (Federal/State/Local)
<input type="checkbox"/> Accounting Professional	<input type="checkbox"/> Foreign Government Employee (Non-U.S.)
<input type="checkbox"/> Military	<input type="checkbox"/> Consultant
<input type="checkbox"/> Educator	<input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> Clerical/Administrative Services	
<input type="checkbox"/> Trade/Service (Labor/Manufacturing/Production)	
<input type="checkbox"/> Sales/Marketing	
Business Street Address	City State Zip Code

FOR CHARLES SCHWAB USE ONLY:											
Branch Office and Account Number											



1. Account Information (Continued)

Designated Beneficiary/Minor Information (Account Holder) (Continued)

Are you affiliated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer? <input type="checkbox"/> No <input type="checkbox"/> Yes (If "yes," you must attach a letter from your employer approving the establishment of your account when submitting this application.)	
Are you a director, 10% shareholder or policy-making officer of a publicly held company? <input type="checkbox"/> No <input type="checkbox"/> Yes (If "yes," enter company name _____ and trading symbol _____.)	
Marital Status <input type="checkbox"/> Single <input type="checkbox"/> Married <input type="checkbox"/> Divorced	Number of Dependents
Annual income: <input type="checkbox"/> Under \$15,000 <input type="checkbox"/> \$15,000-\$24,999 <input type="checkbox"/> \$25,000-\$49,999 <input type="checkbox"/> \$50,000-\$99,999 <input type="checkbox"/> \$100,000 or more	Liquid net worth: <input type="checkbox"/> Under \$25,000 <input type="checkbox"/> \$25,000-\$49,999 <input type="checkbox"/> \$50,000-\$99,999 <input type="checkbox"/> \$100,000-\$249,999 <input type="checkbox"/> \$250,000 or more Specify : _____

Responsible Individual/Depositor Information (Only one Responsible Individual may be named.)

Name (First) _____ (Middle) _____ (Last) _____	
Home/Legal Street Address (no P.O. boxes) _____ City _____ State _____ Zip Code _____	
Mailing Address (if different from above; P.O. boxes may be used) _____ City _____ State _____ Zip Code _____	
Home Telephone Number () _____	Business Telephone Number () _____
Cellular Telephone Number () _____	
Email Address* (Required to update the Designated Beneficiary's account on the web.)	Social Security/Tax ID Number
Date of Birth (mm/dd/yyyy)	
Mother's Maiden Name	Are you known by any other name? Specify: _____
ID Number _____ <input type="checkbox"/> Driver's License <input type="checkbox"/> State <input type="checkbox"/> Passport	State/Country of Issuance
Expiration Date (mm/dd/yyyy)	
Country(ies) of Citizenship (Must list all.) <input type="checkbox"/> USA <input type="checkbox"/> Other: _____	Country of Legal Residence <input type="checkbox"/> USA <input type="checkbox"/> Other: _____

Securities industry regulations require that we collect the following information:

Employment Status (Select only one.) <input type="checkbox"/> Employed <input type="checkbox"/> Self-Employed <input type="checkbox"/> Retired <input type="checkbox"/> Homemaker <input type="checkbox"/> Student <input type="checkbox"/> Not Employed	Employer Name/Business Name
Occupation (If you selected "Employed" or "Self-Employed," select one option that best describes your occupation.)	
<input type="checkbox"/> Business Owner/Self-Employed	<input type="checkbox"/> Financial Services/Banking Professional
<input type="checkbox"/> Executive/Senior Management	<input type="checkbox"/> Information Technology Professional
<input type="checkbox"/> Medical Professional	<input type="checkbox"/> Other Professional
<input type="checkbox"/> Legal Professional	<input type="checkbox"/> U.S. Government Employee (Federal/State/Local)
<input type="checkbox"/> Accounting Professional	<input type="checkbox"/> Foreign Government Employee (Non-U.S.)
<input type="checkbox"/> Military	<input type="checkbox"/> Consultant
<input type="checkbox"/> Educator	<input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> Clerical/Administrative Services	<input type="checkbox"/> Trade/Service (Labor/Manufacturing/Production)
<input type="checkbox"/> Sales/Marketing	
Business Street Address	City
	State
	Zip Code
Are you affiliated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer? <input type="checkbox"/> No <input type="checkbox"/> Yes (If "yes," you must attach a letter from your employer approving the establishment of your account when submitting this application.)	
Are you a director, 10% shareholder or policy-making officer of a publicly held company? <input type="checkbox"/> No <input type="checkbox"/> Yes (If "yes," enter company name _____ and trading symbol _____.)	
Marital Status <input type="checkbox"/> Single <input type="checkbox"/> Married <input type="checkbox"/> Divorced	Number of Dependents
Investment Experience <input type="checkbox"/> None <input type="checkbox"/> Limited <input type="checkbox"/> Good <input type="checkbox"/> Extensive	

*By providing your email address, you are consenting to receive email from Schwab. Information about opting out of certain email communications is provided at www.schwab.com/privacy.



2. Required Information About the Account

Overall Investment Objective of Account (Select one only.)

- Capital Preservation Income Growth Speculation

Source of Funds (Select all that apply.)

In this section, we're collecting information about the categories ("sources") of assets that will be held in your account. Please select all of the sources of the assets that will be deposited or held in your account, including the original sources of any assets that will be transferred into the account from another firm.

- Salary/Wages/Savings Investment Capital Gains
 Social Security Benefits Gifts
 Sale of Property or Business Gambling/Lottery
 Family/Relatives/Inheritance Other (specify): _____

3. Account Features

Your Consent to Enroll in Schwab's Cash Features Program

The Cash Features Program is a service that offers the Bank Sweep feature (a "Cash Feature") to permit your uninvested cash (the "Free Credit Balance") to earn income while you decide how those funds should be invested longer term.

You understand that additional information about the Cash Features Program and each Cash Feature is available in the Cash Features Disclosure Statement.

By signing this Application, you consent to having the Free Credit Balance in your brokerage account included in the Cash Features Program, as described in the Cash Features Disclosure Statement.

The Bank Sweep feature is designated as the Cash Feature for brokerage accounts of account holders residing in the U.S. Through the Bank Sweep feature, Schwab automatically makes deposits to and withdrawals from deposit accounts at one or more Sweep Banks that are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000 (including principal and accrued interest) when aggregated with all other deposits held by you in the same insurable capacity.

You understand and agree that Schwab may (1) make changes to the terms and conditions of the Cash Features Program; (2) make changes to the terms and conditions of any Cash Feature; (3) change, add, or discontinue any Cash Feature; (4) change your investment from one Cash Feature to another if you become ineligible for your current Cash Feature or your current Cash Feature is discontinued; and (5) make any other changes to the Cash Features Program or Cash Feature as allowed by law. Schwab will notify you in writing of changes to the terms of the Cash Features, changes to the Cash Features we make available, or changes to the Cash Features Program prior to the effective date of the proposed change.

Paperless Document Enrollment

Here's how paperless works: You will receive account statements, trade confirmations, shareholder materials, account agreements and related disclosures, and other regulatory documents, if available in paperless form, by email. For certain documents, including account statements, you will receive an email notification with a link to log on to our secure website to access your documents. For complete information, please see Important Information About Your Informed Consent to Receive Paperless Documents in the Appendix to this application.

To opt for Paperless Documents, simply provide your email address in Section 1. The completion of your enrollment will depend on one of the following scenarios.

Scenario 1:

If you already have an account enrolled in Paperless Documents using the email address provided in Section 1, have logged on to Schwab.com in the past six months, and agree to the following, your paperless enrollment will be complete once your account is opened.

- I have read and understood the Important Information About Your Informed Consent to Receive Paperless Documents in the Appendix to this application and consent to enrolling this account in Paperless Documents.
- I understand that I will receive an email with my new account agreement and related disclosures.

Or

Scenario 2:

If you do not have an existing account enrolled in Paperless Documents, are using a different email address, or have not logged on to Schwab.com in the past six months, we will send you an email after the account is opened. To complete enrollment, you will need to click the "I Consent" button in that email and/or follow the instructions to access Schwab.com. If you do not click the "I Consent" button, this account will not be enrolled in Paperless Documents and we will send your account agreement and related disclosures, as well as future regulatory documents, by postal mail.

If you do not want to participate in Paperless Documents, please check the box below.

- No, do not enroll my account in Paperless Documents. Please send my regulatory documents via postal mail.



4. Fund the Designated Beneficiary's Account (Select only ONE of the following choices for your account.)

A. Check or Money Order. Make payable to Charles Schwab & Co., Inc.

- New contribution.** Indicate the year for which you are contributing on the front of the check. If no year is indicated, the contribution will be credited for the current year.
- Rollover** from another Education Savings Account that you have withdrawn in the past 60 days.

B. Transfer of Account. Complete and attach a Schwab Transfer Your Account form.

5. Death Beneficiary Designation

The Minor Account Holder of this ESA may not designate his/her own beneficiary until he/she reaches the age of majority (usually 18 or 21, depending upon the state in which the Minor lives). Upon the Minor attaining the age of majority, the Responsible Individual may resign management of this account, at which time the Minor may assume control of the ESA assets by filling out a Schwab Education Savings Account Application. The Minor may designate his/her beneficiary at that time.

In the event of the Minor Account Holder's death, the interest in the account will become the property of the beneficiary as designated below. I understand that if no beneficiary survives, or if the Responsible Individual cannot locate the beneficiary, the Responsible Individual will distribute the benefits to the current Minor Account Holder's estate as described in the Charles Schwab & Co., Inc. Education Savings Account Plan.

I understand that I may change or revoke this designation at any time by submitting it in writing to Schwab, as long as the original Minor Account Holder is alive and under age 30 (other than a special needs beneficiary). It will become effective when Schwab receives it.

I hereby designate the qualified individual* below as the Minor's beneficiary:

Name (First)	(Middle)	(Last)	Social Security/Tax ID Number
Relationship to Minor Account Owner*			Date of Birth (mm/dd/yyyy)
Home/Legal Street Address (no P.O. boxes)		City	State Zip Code
Country(ies) of Citizenship (Must list all.) <input type="checkbox"/> USA <input type="checkbox"/> Other: _____		Country of Legal Residence <input type="checkbox"/> USA <input type="checkbox"/> Other: _____	

*Must be a qualified member of the current designated beneficiary's (account holder) family. A qualified family member is defined as the spouse of the designated beneficiary and any child, grandchild, stepchild, sibling, parent, grandparent, stepparent, niece or nephew, aunt or uncle, son-in-law, daughter-in-law, father-in-law, mother-in-law, brother-in-law, or sister-in-law and the spouse of any such individual as well as the beneficiary's first cousins (but not their spouses).

6. Nominate a Successor Responsible Individual (Optional)

Use this section to designate a Successor Responsible Individual to act on this account in the event of your incapacity, death, resignation or removal as Responsible Individual. **This is a nomination only.** To activate the role of a Successor Responsible Individual, the account registration must be changed.

I hereby nominate as Successor Responsible Individual/Depositor of the account:

Name of Successor Responsible Individual
--

This designation shall take effect as to this account in the event of my incapacity, death, resignation or removal as Responsible Individual.

IN WITNESS THEREOF, I have executed this Designation of Successor Responsible Individual form on (mm/dd/yyyy) _____.

The witness may NOT be the individual designated as the Successor Responsible Individual and must be at least 18 years of age.

Current Responsible Individual Signature and Date Required

X		
Responsible Individual Signature	Print Name	Date

Witness Signature and Date Required

X		
Witness Signature	Print Name	Date



7. Authorization to Open Account

By signing this Application, you hereby adopt the Education Savings Account Plan that names Charles Schwab & Co., Inc. as custodian of this account, as further explained in the Charles Schwab & Co., Inc. Education Savings Account Plan.

You acknowledge that you have received and read the attached Application Agreement, which contains a predispute arbitration provision. You acknowledge that your signature signifies and constitutes your agreement that this account and your relationship with Schwab will be governed by the Application Agreement and all incorporated agreements and disclosures, including, but not limited to, the applicable Education Savings Account Plan, the Schwab

IRA and ESA Account Agreement and the *Charles Schwab Pricing Guide*, each as amended from time to time (the "Agreement and Disclosures"). You understand there are fees associated with establishing, maintaining, engaging in transactions and transferring assets out of this account.

This account is established and effective when you receive your account number. You have the right to cancel the account within seven days from the date the account is established. The revocation will be reported to the Internal Revenue Service as a distribution.

I also acknowledge that the securities products purchased or sold in a transaction with Schwab

(i) are not insured by the Federal Deposit Insurance Corporation ("FDIC"); (ii) are not deposits or other obligations of Schwab and are not guaranteed by Schwab Bank; and (iii) are subject to investment risks, including possible loss of the principal invested.

For purposes of this Account Application and the attached Application Agreement, the terms "you," "your" and "Account Holder" refer to each person who signs this Account Application and apply with respect to both a person's individual capacity as well as any applicable representative or fiduciary capacity. The terms "we," "us," "our" and "Schwab" refer to Charles Schwab & Co., Inc.

I certify, under penalty of perjury, that (1) the number shown on this Application is the correct Taxpayer Identification Number; (2) I am not subject to backup withholding due to a failure to report interest and dividend income; (3) I am a U.S. person (a U.S. citizen or U.S. resident alien); and (4) I am exempt from Foreign Account Tax Compliance Act (FATCA) reporting. I understand that if I have been notified by the IRS that I am subject to backup withholding as a result of dividend or interest underreporting and I have not received a notice from the IRS advising me that backup withholding is terminated, I must cross out item 2 above.

The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding.

The Agreement with Schwab includes a predispute arbitration clause. You acknowledge receipt of the predispute arbitration clause contained in Section 10, page 2, of the Application Agreement.

Signature and Date Required

X
Responsible Individual Signature Print Name Date

FOR CHARLES SCHWAB USE ONLY:																
Branch Office and Account Number															Customer ID Number	Source Code
Approved By	Print Name of Approver										Date					



Education Savings Account Application Agreement

This agreement relates to your account and is part of the Account Agreement between each account holder and Charles Schwab & Co., Inc. ("Schwab"). Please read and retain for your records.

Section 1: Scope of Agreement. Your agreement with Schwab consists of the terms set forth in this Application Agreement and the terms set forth in the Education Savings Account Plan, the Schwab IRA and ESA Account Agreement, which incorporates the *Charles Schwab Pricing Guide* and a number of other important disclosures. The Education Savings Account Plan and the Schwab IRA and ESA Account Agreement are provided with this Application or at the opening of your Account. You agree to contact Schwab if you do not receive the Education Savings Account Plan and the Schwab IRA and ESA Account Agreement. In addition, you may in the future receive from Schwab supplemental terms or disclosures that pertain to certain account types, service features and benefit packages. These supplemental terms and disclosures, this Application Agreement, the Education Savings Account Plan, and the Schwab IRA and ESA Account Agreement are collectively referred to as the *Agreement and Disclosures*. You agree to read the Agreement and Disclosures carefully and retain copies for your records.

Section 2: Acceptance of Agreements and Disclosures. You agree that the Agreement and Disclosures govern all aspects of your relationship with Schwab, including all transactions between Schwab and you and all products and services now or in the future offered through Schwab. Schwab may rely on your use of Schwab's products and services as evidence of your continued acceptance of the Agreement and Disclosures.

Section 3: Your Representations and Warranties. You represent and warrant that: (a) you are of legal age in the state in which you live and you are authorized to enter into this Agreement; (b) you have supplied accurate information in your Account Application; (c) no additional authorizations from third parties are required for you to open the Account and effect transactions therein; (d) except as you have otherwise indicated on your Account Application or in writing to us, (i) you are not an employee of or affiliated with any securities exchange or member firm of any exchange, the Financial Industry Regulatory Authority (FINRA), or any securities firm, bank, trust company, or insurance company; and (ii) you are not a director, 10% beneficial shareholder, policy-making officer, or otherwise an "affiliate" (as defined in Rule 144 under the Securities Act of 1933) of a publicly traded company; and (e) this Application Agreement, as amended from time to time, is a legal, valid and binding obligation, enforceable against you in accordance with its terms.

Section 4: Account Handling. Schwab will automatically hold of all your securities purchased, sales proceeds, dividends and interest. Schwab will also release your name,

address and securities positions to companies in which we hold securities for your Account upon request, unless you notify us otherwise in writing.

Section 5: Responsibility for Investment Decisions. You agree that you and any agent under a power of attorney or Investment Advisor (if you have one) are solely responsible for investment decisions in your Account, including whether to buy or sell a particular security. Unless required by law, or unless Schwab provides advice to you that is clearly identified as an individualized recommendation for you, you understand that Schwab has no obligation to determine whether a particular transaction, strategy, or purchase or sale of a security is suitable for you. Your obligation includes an affirmative duty to monitor and stay informed about your Account and your investments and respond to changes as you deem appropriate. Unless Schwab otherwise agrees with you in writing, Schwab does not have any discretionary authority or obligation to review or make recommendations for the investment of securities or cash in your Account.

You acknowledge that Schwab does not provide tax or legal advice.

Section 6: Payment of Indebtedness. You agree to make payment of any indebtedness related to your Account, including, but not limited to, any such indebtedness that results from instructions provided to Schwab by you, your agent or any attorney-in-fact under a power of attorney or Investment Advisor authorized to make transactions in your Account. We may elect anytime, with or without notice, to make any debit balance or other obligation related to your Account immediately due and payable. We may report any past-due account to a consumer and/or securities credit reporting agency. We may also refer your Account to a collection agency.

Section 7: Liquidations. Whenever it is necessary, for our protection, to satisfy a debit in your Account or an obligation owed us with respect to your Account (including the payment of any fees and expenses relating to your Account that are assessed from your Account), you authorize and direct Schwab to sell, assign and deliver all or any part of the property in your Account or close any or all transactions in your Account or restrict activity in your Account as may be necessary from time to time to satisfy any such debit or obligation. You further authorize and direct us to choose which property to buy or sell, which transactions to close, and the sequence and timing of liquidation. We may take such actions on whatever exchange or market and in whatever manner (including public auction or private sale) that we choose in the exercise of our business judgment pursuant to this direction. You agree not to hold us liable for the choice of which property to buy or sell or

which transactions to close, for the timing or manner of liquidation, or for any tax consequences from such actions pursuant to this direction. This serves as your direction and authorization to us, without any additional notice to you. No demand or notice shall impose on Schwab any obligation to make such demand or provide such notice to you in the future. Any such notice or demand is hereby expressly waived, and no specific demand or notice shall invalidate this waiver.

Section 8: Verification. You authorize Schwab to inquire from any source, including a consumer reporting agency, as to the identity (as required by law), creditworthiness and ongoing eligibility for the Account of the Account Holders, any other person referred to on this Application, or any person whom Schwab is later notified is associated with or has an interest in the Account (as well as such persons' spouses if they live in a community property jurisdiction) at account opening, at any time throughout the life of the Account, and thereafter for debt collection or investigative purposes.

Section 9: Required Arbitration Disclosures. Regulatory authorities require that any brokerage agreement containing a predispute arbitration agreement must disclose that this agreement contains a predispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

- All parties to this Agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
- Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
- The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
- The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
- The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this Agreement.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until:

1. the class certification is denied;
2. the class is decertified; or
3. the customer is excluded from the class by the court.

Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this Agreement except to the extent stated herein.

Section 10: Arbitration Agreement. Any controversy or claim arising out of or relating to (i) this Agreement, any other agreement with Schwab, an instruction or authorization provided to Schwab or the breach of any such agreements, instructions, or authorizations; (ii) the Account, any other Schwab account or Services; (iii) transactions in the Account or any other Schwab account; (iv) or in any way arising from the relationship with Schwab, its parent, subsidiaries, affiliates, officers, directors, employees, agents or service providers ("Related Third Parties"), including any controversy over the arbitrability of a dispute, will be settled by arbitration.

This arbitration agreement will be binding upon and inure to the benefit of the parties hereto and their respective representatives, attorneys-in-fact, heirs, successors, assigns and any other persons having or claiming to have a legal or beneficial interest in the Account, including court-appointed trustees and receivers. This arbitration agreement will also inure to the benefit of third-party service providers that assist Schwab in providing Services ("Third-Party Service Providers") and such Third-Party Service Providers are deemed to be third-party beneficiaries of this arbitration agreement.

The parties agree that this arbitration agreement will apply even if the application to open the Account is denied and will survive the closure of your Account and/or the termination of services rendered under this Agreement.

Such arbitration will be conducted by, and according to the securities arbitration rules and regulations then in effect of, the Financial Industry Regulatory Authority (FINRA) or any national securities exchange that provides a forum for the arbitration of disputes, provided that Schwab is a member of such national securities exchange at the time the arbitration is initiated. Any party may initiate arbitration by filing a written claim with FINRA or such eligible national securities exchange. If arbitration before FINRA or an eligible national securities exchange is unavailable or impossible for any reason, then such arbitration will be conducted by, and according to the rules and regulations then in effect of, the American Arbitration Association (AAA). If arbitration before the AAA is unavail-

able or impossible for any reason, the parties agree to have a court of competent jurisdiction appoint three (3) arbitrators to resolve any and all disputes or controversies between or among the parties. Each party shall bear its own initial arbitration costs, which are determined by the rules and regulations of the arbitration forum. In the event of financial hardship, the arbitration forum may waive certain costs in accordance with such rules. At the conclusion of the hearing, the arbitrators will decide how to assess the costs of the arbitration among the parties.

Any award the arbitrator makes shall be final and binding, and judgment on it may be entered in any court having jurisdiction. This arbitration agreement shall be enforced and interpreted exclusively in accordance with applicable federal laws of the United States, including the Federal Arbitration Act. Any costs, fees or taxes involved in enforcing the award shall be fully assessed against and paid by the party resisting enforcement of said award.

For FINRA arbitrations, FINRA will appoint a single public arbitrator in customer cases decided by one arbitrator. In customer cases decided by three arbitrators, investors have the option of choosing an arbitration panel with two public arbitrators and one non-public arbitrator (Majority-Public Panel Rule) or a panel of all public arbitrators (Optional All-Public Panel Rule). If the customer declines to elect a panel selection method in writing by the applicable deadline, the Majority-Public Panel Rule for selecting arbitrators will apply.

All notices from one party to the other involving arbitration shall be considered to have been fully given when so served, mailed by first-class, certified or registered mail, or otherwise given by other commercially accepted medium of written notification.

In addition to the above provisions, if a party to this Agreement is or becomes a non-U.S. resident at the time of any controversy subject to this arbitration agreement, such party acknowledges and agrees to the following additional provisions:

- (1) The rules of the organization administering the arbitration specifically provide for the formal designation of the place at which the arbitration is to be held.
- (2) Entering into this Agreement constitutes consent to submit to the personal jurisdiction of the courts of the state of California, U.S.A., to interpret or enforce any or all of these arbitration provisions. Judgment on any arbitration award may be entered in any court having jurisdiction, or application may be made to such court for judicial acceptance of the award and an order of enforcement, as the case may be.
- (3) The exclusive language to be used by the parties and the arbitrators in the arbitration proceedings shall be English. Any party wishing an interpreter shall make all arrangements directly with the interpreter and shall assume all costs of the service.

- (4) If a party is a foreign government or state, state-owned or state-operated enterprise or other instrumentality of a foreign government or state, such party waives all rights of sovereign immunity and neither the Federal Act of State doctrine nor the doctrine of sovereign immunity shall apply insofar as any enforcement in courts located in the U.S.A. is concerned.

Section 11: Electronic Copies. The electronically stored copy of your (or your agent's) signature, any written instructions or authorizations, the Account Application and the Agreement and Disclosures is considered to be the true, complete, valid, authentic and enforceable record, admissible in judicial, administrative or arbitration proceedings to the same extent as if the documents and records were originally generated and maintained in printed form. You agree to not contest the admissibility or enforceability of Schwab's electronically stored copy of such documents in any proceeding between you and Schwab.

Section 12: Float. You agree that Schwab may retain as compensation for services your Account's proportionate share of any interest earned on aggregate cash balances held in Schwab's bank account with respect to (1) assets awaiting investment or (2) assets pending distribution from your Account. Such interest retained by Schwab shall generally be at money market rates. Schwab's receipt of such compensation is further described in the Agreements and Disclosures.

Section 13: Unclaimed Property. If no activity occurs in the Account within the time period specified by applicable state law, the Account may be transferred to the appropriate state.

Section 14: Information About SIPC. To obtain information about Securities Investor Protection Corporation (SIPC), including an explanatory SIPC brochure, please contact SIPC at www.sipc.org or 1-202-371-8300.

Section 15: Impartial Lottery for Securities Subject to Partial Call or Partial Redemption. If Schwab holds securities for you in street name, in Schwab's name, or in bearer form that are subject to partial call or partial redemption, then in the case of a partial call or partial redemption Schwab will use an impartial lottery system to select the securities to be called or redeemed from among accounts holding those securities. For a description of Schwab's lottery system, please visit www.schwab.com/PartialCalls. If you would like a printed description of Schwab's lottery system mailed to you, please contact a Schwab representative at 1-800-435-4000.

Cash Features Program General Terms and Conditions

The automatic investment of your free credit balance, including the frequency and the amount of each sweep, is governed by the terms and conditions set forth in the Cash Features Disclosure Statement and in the Account Agreement applicable to your account. The material in this document is intended for informational purposes only. If there is any conflict between the descriptions in this document and the terms of your Account Agreement, your Account Agreement will control.

How the Cash Features Program Works	<p>Schwab’s Cash Features Program is the service (described in the Cash Features Disclosure Statement) that we provide to automatically invest, or “sweep,” the Free Credit Balance in your account into a liquid investment to earn interest. The program permits you to earn income while you decide how those funds should be invested longer term.</p>
Available Cash Feature	<p>The available cash features currently consist of:</p> <ul style="list-style-type: none"> ▪ Interest payments by Schwab on the Free Credit Balance in your eligible account (the “Schwab One® Interest feature”); ▪ Interest-bearing Deposit Accounts at our affiliated bank, Schwab Bank (the “Bank Sweep feature,” which consists of the “Schwab Bank Sweep feature” and the “Schwab Bank Sweep for Benefit Plans feature”); and ▪ For some accounts, one or more affiliated money market mutual funds (the “Money Fund Sweep feature”).
Eligibility	<p>Eligibility for each cash feature is based on the registered ownership and the type of account. Not all account registrations and account types will be eligible for all cash features. Some account registrations and account types will be eligible for only one cash feature. Please see your Account Application and the Cash Features Disclosure Statement for more complete eligibility details.</p>
Duty to Monitor Eligibility for Cash Features	<p>It is your responsibility to monitor your eligibility for the cash features and determine the best cash feature available to you. Schwab is not responsible for contacting you if you are, or later become, eligible for other higher-yielding cash features.</p>
Interest Rates and Yields	<p>The interest rates and yields for the different cash features vary over time. Current interest rates and yields can be obtained by contacting your independent investment advisor or your Financial Consultant, or by calling us at 1-800-435-4000. If you already have an account, you can visit our website at www.schwab.com/cash. If your account is an Advisor Services account, please contact your advisor, visit www.schwab.com/SA_cash, or call Schwab Alliance at 1-800-515-2157.</p> <ul style="list-style-type: none"> ▪ The interest rate on the Schwab One Interest feature is set by Schwab. We may seek to pay as low a rate as possible consistent with our views of competitive necessities. With certain exceptions, the rate will be tiered based upon the overall Household Balance of your account(s). ▪ The interest rate on the Schwab Bank Sweep feature is set by Schwab Bank, which may seek to pay as low a rate as possible consistent with its views of competitive necessities. With certain exceptions, the rate will be tiered based upon account type and the overall household value of your account(s) with Schwab and Schwab Bank. ▪ The interest rate on the Schwab Bank Sweep for Benefit Plans feature is set by Schwab Bank, which intends to pay interest consistent with reasonable rate provisions of applicable legal and regulatory authority. Interest rates do not vary by tiers and do not vary based on householding of assets.

Brokerage Products: Not FDIC-Insured ▪ No Bank Guarantee ▪ May Lose Value

<p>Interest Rates and Yields (Continued)</p>	<ul style="list-style-type: none"> ▪ Money market mutual funds offered through the Money Fund Sweep feature seek to achieve the highest yield (less fees and expenses) consistent with prudence and their investment objectives. <p>Cash features are not intended to be long-term investments. If you desire to maintain cash balances for other than a short-term period and/or are seeking the highest yields currently available in the market, please contact your Schwab representative or visit www.schwab.com/cash for investment options that may be available outside of the Cash Features Program to help maximize your return potential consistent with your investment objectives and risk tolerance. If your account is an Advisor Services account, please contact your advisor, visit www.schwab.com/SA_cash, or call Schwab Alliance at 1-800-515-2157.</p>
<p>Benefits to Schwab</p>	<p>We may charge fees and receive certain benefits under the different cash features. A portion of these fees and benefits may be shared with your investment professional. Because of these fees and benefits, we have a financial incentive to select the particular cash features included in the Cash Features Program.</p>
<p>Differing Risks and Account Protection</p>	<p>The different cash features are subject to different risks and account protection:</p> <ul style="list-style-type: none"> ▪ The Schwab One[®] Interest feature is not subject to market risk and value loss but is subject to the risk of Schwab's failure. In the unlikely event that Schwab fails, cash is eligible for SIPC coverage up to a limit of \$250,000 (including principal and interest) per client in each insurable capacity (e.g., individual or joint). Free Credit Balances held at Schwab are not insured or guaranteed by the FDIC. ▪ The Bank Sweep feature, which includes the Schwab Bank Sweep feature and the Schwab Bank Sweep for Benefit Plans feature, is not subject to market risk and value loss but is subject to the risk of Schwab Bank's failure. In the unlikely event that Schwab Bank fails, deposits at Schwab Bank are eligible for FDIC insurance protection up to a limit of \$250,000 (including principal and interest) per depositor in each insurable capacity (e.g., individual, joint, and plan participant). This limit includes any other deposits you may have at Schwab Bank outside of the Bank Sweep feature. You are responsible for monitoring your bank balances in the Bank Sweep feature and the balances in any of your other bank accounts at Schwab Bank to determine if these, in total, exceed FDIC insurance limits. Monies held in the Bank Sweep feature are not covered by SIPC. ▪ Money market mutual funds in the Money Fund Sweep feature invest in high-quality, short-term securities and seek to maintain a stable value, but are subject to market risks and potential value loss. They are not bank accounts and are not subject to FDIC insurance protection. They are instead covered by SIPC, which protects against the custodial risk (and not a decline in market value) when a brokerage firm fails by replacing missing securities and cash up to a limit of \$500,000, of which \$250,000 may be cash. Shares held through the Money Fund Sweep feature are not considered cash, but are treated as securities for SIPC coverage.

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Important Information About Your Informed Consent to Receive Paperless Documents

The Purpose and Effect of Your Consent

We are required to give you “in writing” certain records and disclosures about our relationship and transactions in your account. You are entitled to receive those documents on paper. With your affirmative consent, we can provide the documents to you electronically instead (“Paperless Documents”). The information below will help you understand the conditions and requirements relating to the Schwab Paperless Documents program. You can always find the most up-to-date version of this important information at schwab.com/paperless_consent.

Paperless Document categories include: tax forms, trade confirmations, account statements, and other account-related documents delivered after account opening, including account agreement amendments and program disclosures, fund prospectuses, shareholder materials, and investment advisory service disclosures. Each of these document categories is described below. Paperless Documents specific to your transactions and account will be available online after you log in for up to 10 years from the date of initial delivery.

Depending on where you reside, the initial scope of your Paperless Documents enrollment, and whether you have made modifications to your enrollment, not all of the document categories may apply to you. If you are uncertain which documents are covered by your Paperless Documents enrollment, please check online at schwab.com/paperless_services or call or email Schwab or Schwab Bank using the contact information below.

For additional information about Schwab Bank account statements, see the “Addendum” on the following page.

You indicate your consent by providing an email address and signing an account agreement, or by clicking or touching an “I consent” or other button indicating assent to, or acceptance of, the conditions and requirements relating to the Schwab Paperless Documents program, and we record your consent. The method of consent may depend on whether you are opening an account or separately enrolling in Paperless Documents for an existing account. If you do not provide consent, Schwab or Schwab Bank will send you paper copies. Your consent will be effective until you cancel your enrollment in Paperless Documents or Schwab or Schwab Bank notifies you that the program is discontinued. If you are a joint account holder, your consent binds the other holder on your account.

By providing consent, you confirm that you have the ability to access Schwab on the web, and the ability to open, view, save, retain, and print PDF documents as described below. This demonstrates that you can receive the Paperless Documents we will deliver to you. You also confirm that you have provided a valid email address as part of the account opening or Paperless Documents enrollment process. The email address that you provide shall be used to send Paperless Documents for all of your enrolled accounts and categories.

Our Contact Information to Request Paper Documents or Ask Questions

After you provide your consent, you may still request paper documents. To access a document and print a copy, log in to your Schwab or Schwab Bank account, select the “Accounts” tab, and then select the “History & Statements” tab and click on “Statements & Reports.” To request paper documents, ask questions, or report problems about Paperless Documents, you may contact us as follows:

To contact us by email, log in to Schwab.com, click “Contact Us,” and then click “Send a Secure Message.” Advisor Services clients, please log in to schwaballiance.com. To contact us by phone:

- Investor Services clients: 1-800-435-4000.
- Schwab Bank High Yield Investor Checking® (or other Schwab Bank) clients: 1-888-403-9000.
- Clients in the U.K.: 00 800 0826-5001.
- Clients in Switzerland: 0800 56-3711.
- Advisor Services clients: Contact your independent advisor or call 1-800-515-2157.

- Schwab Intelligent Portfolios™ clients: 1-855-694-5208.
- Institutional Intelligent Portfolios™ clients: 1-877-805-3399.

To Withdraw Your Consent

When you change your preference back to postal mail delivery, this cancels your enrollment in Paperless Documents and withdraws your consent for the document categories you indicate. You can do this by logging in to schwab.com/paperless_services, or by calling or emailing Schwab or Schwab Bank using the contact information above. Allow 48 hours for processing. Your consent will remain effective for other document categories for which you maintain a Paperless preference.

Important note for Schwab Advisor Services clients: Canceling or modifying your enrollment may make your account(s) ineligible for lower commission rates, and the commissions you pay may increase.

Important note for Schwab Intelligent Portfolios and Institutional Intelligent Portfolios clients: Intelligent Portfolios is an all-electronic service. If in the future you request paper documents, withdraw your consent, or are unable to receive Paperless Documents, Schwab may terminate your account.

Electronic Notification When a Paperless Document Is Ready

We deliver a Paperless Document to you by sending an email to let you know it is available. For some documents, the email itself will be the Paperless Document. For all other documents, the email will contain a link to a website where you can access the document, usually after you log in.

Keeping Your Email Address Current, and Actions Schwab or Schwab Bank Will Take If There Is a Problem

Please note that after three consecutive months of unsuccessful electronic delivery attempts of your tax forms, trade confirmations, account statements, or other account-related documents, your account(s) will revert back to postal mail delivery. This will cancel your enrollment in Paperless Documents and will withdraw your consent to receive Paperless Documents.

It is your responsibility to notify Schwab or Schwab Bank of any change in your email address by logging in to the Schwab site and going to Service > MyProfile > Email Addresses or using the contact information above. In addition to the unenrollment process outlined above, if we receive any indication either that the email notification did not reach you successfully or that there is a problem with your email address or service, we will take the following actions:

- **Tax Forms**—Send a letter by postal mail within two business days to inform you that we were unable to deliver your tax form electronically.
- **Trade Confirmations**—Send a paper copy of trade confirmation by regular mail within 24 hours. Also send a letter by postal mail to inform you that we were unable to deliver your trade confirmation to you electronically.
- **Account Statements and Other Account-Related Documents**—Send a letter informing you that we were unable to deliver your statement electronically.
- **Shareholder Materials**—Send a paper copy of the shareholder materials via postal mail within 24 hours. We will send you a letter informing you that we were unable to deliver your shareholder materials electronically. The account will be unenrolled from the Paperless Delivery program and we will begin to send you paper shareholder materials.

Hardware and Software Requirements

To receive Schwab’s Paperless Documents, you need access to a device (a computer or a smartphone) with Internet service and an active email account and address, along with the following:

- A current version of a common Internet browser, with JavaScript enabled.

- A current version of a program, such as Adobe® Reader® that accurately reads and displays PDF documents. If you do not have Adobe Acrobat installed on your computer, you can download the free software at adobe.com.
- An operating system on your device that supports the above.
- A printer that connects to your device if you wish to print and retain records on paper.
- Electronic storage connected to your device if you wish to retain records in electronic form (if using your computer, just save documents to your local hard drive).

If you use your smartphone, you must access the full Schwab website to view and print your documents. If you have questions relating to hardware and software requirements, please call or email Schwab using the contact information on the previous page.

Security and Privacy Information

Unless expressly stated, email notifications for Paperless Documents are not encrypted. For security and confidentiality, unencrypted emails will not include your name, full account number, or any other personal identifier. Be aware, however, that some email addresses may use part or all of your name. If you use a work email address, your employer or other employees may have access to your email. To help you identify your account, we may include some portion, but not all, of your account number. Schwab or Schwab Bank may use a vendor to deliver Paperless Documents.

Whether Schwab, Schwab Bank, or a vendor delivers the Paperless Documents, Schwab's privacy policy applies.

Records and Disclosures Included in Schwab and Schwab Bank's Paperless Documents Program

Tax Forms ("eTax Documents")

A tax document provides important information you need to complete your tax returns. Much of the information we provide in tax documents is also reported to the IRS. This includes any corrected tax documents and accompanying notices. When your tax documents are ready, we will send an email notification containing a web link to the document available after you log in.

Trade Confirmations ("eConfirms")

A trade confirmation is an official record of your securities transaction. It includes the price, the number of shares, and the commission we charge you, as well as disclosures required under federal law. If you choose to receive Paperless trade confirmations, the terms and conditions of your transaction will appear in the email and on a web page you can link to from the email. Your consent to receive Paperless trade confirmations also covers Paperless Delivery of prospectuses or other regulatory information we provide to you at the time of your online trade. Your consent to receive Paperless trade confirmations also covers Paperless Delivery of Trade Confirmation Reports if you elect this alternative as part of your Managed Account enrollment and Schwab makes this option available in the future.

Account Statements and Other Account-Related Documents ("eStatements")

An account statement provides important information about your account, including the price and quantity of securities you hold, the transactions conducted, other activity in your account, and terms and conditions governing your account. Account statements are sent at the end of each month in which you conducted activity in your account or at the end of each calendar quarter, regardless of any account activity. With your account statements, we often include accompanying account-related notices and other regulatory information including, but not limited to, Schwab's Consolidated Statement of Financial Condition, pricing changes, privacy policy, annual notices and amendments to your account agreements, and any other required regulatory documents and disclosures. At account opening and from time to time thereafter,

we also send you notifications about your account. Collectively, we call these notices and documents "account-related documents." When you consent to Paperless account statements, you also consent to Paperless account-related documents.

Investment Advisory Service Disclosures (A Sub-Category of Account-Related Documents)

You consent to account statements and other account-related documents includes investment advisory program disclosures, brochure supplements with information about individual Schwab representatives, and related materials such as periodic updates or annual summaries of any changes to those documents ("Form ADV Disclosures"), as Schwab makes these available in the future. The investment advisory programs may include Schwab Private Client™, Schwab Managed Portfolios™, Schwab Managed Account Services™, the Schwab Advisor Network®, Schwab Intelligent Portfolios™ and other similar advisory services, and fee-based Financial Planning Services. In addition to Schwab's and its affiliates' own Form ADV Disclosures, your consent also covers Form ADV Disclosures from third-party investment advisors whose services you select through Schwab. Paperless Form ADV Disclosures may accompany your account statements or be sent independently. If the third party does not make its Form ADV Disclosures available electronically, you will instead receive the standard printed materials by postal mail.

Shareholder Materials ("Electronic Delivery")

Shareholder materials include regulatory information such as prospectuses; prospectus supplements; quarterly, semi-annual, and annual reports; and proxy materials. You will receive an email notification with a web link to shareholder materials if you have a position in an equity or mutual fund as of the record date for a particular shareholder distribution and the materials are made available electronically by the issuer or third party. If the issuer or third party does not make shareholder materials available electronically, you will instead receive the standard printed materials by postal mail. By providing your consent to receive electronic delivery of shareholder material, you also consent to electronic householding. This means that if you and someone else enroll in this Paperless service using the same email address, we may send one email announcement to this email address if each account holds securities of the same issuer. This avoids duplicate mailings of shareholder documents. If you no longer want electronic householding of your shareholder materials, you must modify your Paperless Documents enrollment as described above. Your shareholder materials may include electronic proxies. You may elect to vote your proxy online at proxyvote.com by entering the control number included in your email announcement and the last four digits of your Social Security number or Taxpayer Identification Number as your PIN.

Addendum for Schwab Bank Paperless Statements ("eStatements")

The above information regarding the purpose and effect of your consent; how to request paper or ask questions; how to withdraw consent; electronic notification when your statement is ready; keeping your email address current; hardware and software requirements; and security and privacy information are all applicable to Schwab Bank accounts. Paperless Documents include account statements and tax forms. Account statements for your Investor Checking account(s), Investor Savings account(s), and Pledged Asset Line® account(s) provide important information about your accounts, including the account balance, the transactions conducted, other activity in your accounts, and other information, terms, and conditions governing your accounts. With your Schwab Bank account statements, we often include accompanying account-related notices and other regulatory information including disclosures such as annual notices and amendments to your account agreements (collectively, "Account Statement Inserts"). By consenting to Paperless Delivery of account statements for your Bank account(s), you also consent to Paperless Delivery of Account Statement Inserts.

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Charles Schwab Bank and Charles Schwab & Co., Inc. are separate but affiliated companies and subsidiaries of The Charles Schwab Corporation. Brokerage products offered by Charles Schwab & Co., Inc. are not insured by the FDIC, are not deposits or obligations of Charles Schwab Bank, and are subject to investment risk, including the possible loss of principal invested. Deposit and other lending products and services are offered by Charles Schwab Bank, Member FDIC and an Equal Housing Lender. Charles Schwab Bank is not acting or registered as a securities broker-dealer or investment advisor.

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