

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	▶ ☒
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.	▶ ☐

Part II	Basic Plan Information —enter all requested information
1a Name of plan CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	1b Three-digit plan number (PN) ▶ 001
	1c Effective date of plan 01/01/1945
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, and ZIP or foreign postal code (if foreign, see instructions) CARNEGIE INSTITUTE 4400 FORBES AVENUE PITTSBURGH, PA 15213	2b Employer Identification Number (EIN) 25-0965280 2c Plan Sponsor's telephone number 412-622-3180 2d Business code (see instructions) 712100

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/02/2023	ERIN KENAVEY
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2022)
v. 220413

3a Plan administrator's name and address ☒ Same as Plan Sponsor		3b Administrator's EIN
		3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name		4b EIN 4d PN
5 Total number of participants at the beginning of the plan year		5 1085
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 501
a(2) Total number of active participants at the end of the plan year		6a(2) 501
b Retired or separated participants receiving benefits		6b 0
c Other retired or separated participants entitled to future benefits.....		6c 573
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 1074
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 25
f Total. Add lines 6d and 6e		6f 1099
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 1040
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2F 2G 2L 2M 2T		
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:		
9a Plan funding arrangement (check all that apply)		9b Plan benefit arrangement (check all that apply)
(1) ☒ Insurance	(1) ☒ Insurance	
(2) ☐ Code section 412(e)(3) insurance contracts	(2) ☐ Code section 412(e)(3) insurance contracts	
(3) ☒ Trust	(3) ☒ Trust	
(4) ☐ General assets of the sponsor	(4) ☐ General assets of the sponsor	
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)		
a Pension Schedules		b General Schedules
(1) ☒ R (Retirement Plan Information)	(1) ☒ H (Financial Information)	
(2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary	(2) ☐ I (Financial Information – Small Plan)	
(3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	(3) ☒ 1 A (Insurance Information)	
	(4) ☒ C (Service Provider Information)	
	(5) ☒ D (DFE/Participating Plan Information)	
	(6) ☐ G (Financial Transaction Schedules)	

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
A Name of plan CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 CARNEGIE INSTITUTE	D Employer Identification Number (EIN) 25-0965280

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier TIAA-CREF
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(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
13-1624203	69345	150840	583	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end.....	4	25117412
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	23944231

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ☐**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year	7b	25113565
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c	Additions: (1) Contributions deposited during the year	7c(1)	176797	
	(2) Dividends and credits.....	7c(2)		
	(3) Interest credited during the year.....	7c(3)	1028060	
	(4) Transferred from separate account.....	7c(4)	2457826	
	(5) Other (specify below)	7c(5)	9705	

▶ PLAN SERVICING CREDIT, PARTICIPANT LOAN INTEREST, PARTICIPANT LOAN PRINCIPAL REPAYMENT

(6) Total additions.....	7c(6)	3672388
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d	Total of balance and additions (add lines 7b and 7c(6))	7d	28785953
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e Deductions:

(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	1408047	
(2) Administration charge made by carrier.....	7e(2)		
(3) Transferred to separate account.....	7e(3)	2280346	
(4) Other (specify below)	7e(4)	-19852	

▶ PLAN FEES

(5) Total deductions.....	7e(5)	3668541
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f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	25117412
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Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve.....	9a(3)		
(4) Earned ((1) + (2) - (3)).....		9a(4)	0
b Benefit charges (1) Claims paid.....	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2)).....		9b(3)	0
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs.....	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges.....	9c(1)(G)		
(H) Total retention.....		9c(1)(H)	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement.....		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).).....		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.	10b	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 CARNEGIE INSTITUTE	D Employer Identification Number (EIN) 25-0965280	

Part I Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a

Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).....

☒ Yes ☐ No
- b

If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

TIAA

13-1624203

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

GLOBAL RETIREMENT PARTNERS, LLC

4460 REDWOOD HWY
SAN RAFAEL, CA 94903-1951

47-1411118

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27	ADVISOR	36750	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

TIAA

730 THIRD AVENUE
NEW YORK, NY 10017-3206

13-1624203

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 17 27 28 38 52 54 64 66	NONE	32165	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN	B Three-digit plan number (PN) ►	001
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 CARNEGIE INSTITUTE	D Employer Identification Number (EIN) 25-0965280	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: TIAA REAL ESTATE		
b Name of sponsor of entity listed in (a): TIAA-CREF		
c EIN-PN 13-1624203-004	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 2274182
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II **Information on Participating Plans (to be completed by DFEs)**

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
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plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>		
A Name of plan <u>CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN</u>	B Three-digit plan number (PN) ►	<u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>CARNEGIE INSTITUTE</u>	D Employer Identification Number (EIN) <u>25-0965280</u>	

Part I	Asset and Liability Statement		
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)		
(2) Participant contributions.....	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans.....	1c(8)	142615	204667
(9) Value of interest in common/collective trusts.....	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)	2212091	2274182
(11) Value of interest in master trust investment accounts.....	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	58458416	46339279
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	25113565	25117412
(15) Other	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	85926687	73935540

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	85926687	73935540
---	-----------	----------	----------

Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	653022	
(B) Participants	2a(1)(B)	2004987	
(C) Others (including rollovers)	2a(1)(C)	538715	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		3196724
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	8808	
(F) Other	2b(1)(F)	1028060	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		1036868
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	627182	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		627182
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		182866
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-11098062
c Other income	2c		2310
d Total income. Add all income amounts in column (b) and enter total	2d		-6052112
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	5869479	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		5869479
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)	69556	
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		69556
j Total expenses. Add all expense amounts in column (b) and enter total	2j		5939035
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-11991147
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: SCHNEIDER DOWNS & CO., INC.

(2) EIN: 25-1408703

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)

	Yes	No	Amount
4a		X	

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		2000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)			
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☐ No ☐ Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan CARNEGIE INSTITUTE DEFINED CONTRIBUTION AND TAX DEFERRED ANNUITY RETIREMENT PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 CARNEGIE INSTITUTE		D Employer Identification Number (EIN) 25-0965280
Part I Distributions		
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 82-2826183		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....		3
Part II Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)		
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☐ No ☒ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived).....		6a
b Enter the amount contributed by the employer to the plan for this plan year.....		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☐ N/A		
Part III Amendments		
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☐ Increase ☐ Decrease ☐ Both ☐ No		
Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.		
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?.....		☐ Yes ☐ No
11 a Does the ESOP hold any preferred stock?.....		☐ Yes ☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.).....		☐ Yes ☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?.....		☐ Yes ☐ No
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
	a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a	
	b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
	c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year.....	15a	
	b The corresponding number for the second preceding plan year.....	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
----------------	---

18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c) a Enter the percentage of plan assets held as: Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____% b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____
20	PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation _____

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

Pittsburgh, Pennsylvania

Financial Statements and
Supplementary Information

As of December 31, 2022 and 2021 and
for the year ended December 31, 2022

and Independent Auditor's Report Thereon



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FINANCIAL STATEMENTS:	
Statements of Net Assets Available for Benefits as of December 31, 2022 and 2021	4
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Notes to Financial Statements	6
SUPPLEMENTARY INFORMATION	
Schedule H, line 4i - Schedule of Assets (Held at End of Year)	15
All other schedules required by Section 2520.103-10 of the Department of Labor’s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.	

INDEPENDENT AUDITOR'S REPORT

Board of Trustees of the Carnegie Institute
Carnegie Institute Defined Contribution and Tax-Deferred Annuity Retirement Plan
Pittsburgh, Pennsylvania

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit

We have performed audits of the financial statements of the Carnegie Institute Defined Contribution and Tax-Deferred Annuity Retirement Plan (Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audits need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021, and for the year ended December 31, 2022, stating that the certified investment information, as described in Note 9 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the Auditor's Responsibilities for the Audit of the Financial Statements section:

- the amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.
- the information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America U.S. (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for one year after the date of the financial statements are available to be issued.

Management is also responsible for maintaining a current Plan instrument, including all Plan amendments, administering the Plan, and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with U.S. GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if, there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with U.S. GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of accounting principles generally accepted in the United States of America.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Other Matter - Supplemental Schedule Required by ERISA

The Supplemental Schedule of Schedule of Assets (Held at End of Year) as of December 31, 2022 is presented for the purpose of additional analysis and is not a required part of the financial statements, but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information included in the supplemental schedule, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves and other additional procedures in accordance with U.S. GAAS. For information included in the supplemental schedule that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, other than the information agreed to or derived from the certified investment information, including its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion:

- the form and content of the supplemental schedule, other than the information in the supplemental schedule that agreed to or is derived from the certified investment information, is presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.
- the information in the supplemental schedule related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Schneider Downs & Co., Inc.

Pittsburgh, Pennsylvania
September 26, 2023

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

	December 31	
	2022	2021
ASSETS		
Investments, at fair value	\$ 72,261,451	\$ 84,206,180
Investments, at contract value	1,469,422	1,577,892
Notes receivable from participants	204,667	142,615
NET ASSETS AVAILABLE FOR BENEFITS	<u>\$ 73,935,540</u>	<u>\$ 85,926,687</u>

See accompanying notes to the financial statements.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
FOR THE YEAR ENDED DECEMBER 31, 2022

ADDITIONS:

Investment income:

Interest and dividends	\$ 627,182
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Contributions:

Participants	2,004,987
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Employer	653,022
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Rollovers	538,715
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Other	2,310
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	3,199,034
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Interest income on notes receivables from participants	8,808
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Total Additions	3,835,024
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DEDUCTIONS:

Net depreciation in fair value of investments	9,887,136
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Benefits paid to participants	5,869,479
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Administrative expenses	69,556
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Total Deductions	15,826,171
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Net Decrease In Net Assets Available For Benefits	(11,991,147)
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NET ASSETS AVAILABLE FOR BENEFITS:

Beginning of year	85,926,687
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End of year	\$ 73,935,540
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See accompanying notes to the financial statements.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 1 - PLAN DESCRIPTION

The following description of the Carnegie Institute Defined Contribution and Tax-Deferred Annuity Retirement Plan (Plan) provides only general information. Participants should refer to the Plan document for a complete description of the Plan's provisions.

General - The Plan is a defined contribution 403(b) plan covering substantially all employees of Carnegie Institute (Institute).

Employees are eligible immediately upon hire to defer a portion of their pay, subject to certain limitations, as a pretax deferral into the Plan. Contributions are applied to Group Retirement Annuity certificates issued to each participant under the Group Retirement Trusts established by the Teachers Insurance and Annuity Association of America (TIAA) and/or the College Retirement Equities Fund (CREF). The funds are held, invested and disbursed by TIAA and CREF. Participants have the option of transferring fund balances among CREF accounts or to a TIAA annuity prior to retirement. All employee contributions to the Plan are vested immediately.

The Institute matches 50% of the employee's contribution to the Plan for participating employees who have reached the age of 21, completed 1,000 hours of services and have one year of service, up to 8%, for a maximum employer contribution of 4%. The one-year-of-service requirement may be waived by the Plan administrator if included in the participant's written offer letter by the adopting employer.

Participant Accounts - Each participant's account is credited with the participant's contributions and the Institute's matching contributions, as well as allocations of Plan earnings. Participant accounts are charged with an allocation of administrative expenses, if any. Allocations are based on participant earnings, account balances or specific participant transactions, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Vesting - Participants are vested immediately in their contributions, employer contributions and actual earnings thereon.

Payment of Benefits - Upon reaching retirement age, death, disability or earlier termination of service at any age, a participant is entitled to and may elect to receive benefits from TIAA and/or CREF annuity accumulations under any of the following options: lump sum (with restrictions); lifetime annuity; partial payments; and installment payments not to exceed the life expectancy of the participant. Hardship distributions may also be granted in accordance with the guidelines of ERISA.

All benefits under the Plan are funded and are provided solely through group retirement annuity certificates as selected by the participants, therefore benefits are not subject to or covered by federally funded termination insurance.

Notes Receivable from Participants - The Plan permits participants to borrow from their vested account balance. Participants may borrow up to \$50,000, depending on the participant's balance and if the participant has other outstanding loans. The minimum amount a participant can borrow is \$1,000. Loan payments can be made through payroll deductions or direct payment. The notes are secured by the balance in the participant's account and bear varying interest rates, depending on the participant's investments.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A summary of significant accounting policies consistently applied by management in the preparation of the accompanying financial statements follows:

Basis of Accounting - The financial statements of the Plan are prepared on the accrual basis of accounting.

Use of Estimates - The preparation of the financial statements in conformity with generally accepted accounting principles in the United States of America (U.S. GAAP) requires Plan management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investments held by a defined contribution plan are required to be reported at fair value, except for fully benefit-responsive investment contracts. Contract value is the relevant measure for the portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount participants normally would receive if they were to initiate permitted transactions under the terms of the Plan.

Investment Valuation and Income Recognition - Investments are reported at fair value, except for fully benefit-responsive investment contracts, which are reported at contract value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 3 for discussion of fair value measurement.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net depreciation includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Notes Receivable from Participants - Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Related fees are recorded as administrative expenses and are expensed when they are incurred. Delinquent participant loans are classified as distributions based on terms of the Plan document. No allowance for credit losses has been recorded as of December 31, 2022 and 2021. If a participant ceases to make loan repayments and the Plan administrator deems the participant loan to be in default, the participant loan balance is reduced and a benefit payment is recorded.

Prior to January 1, 2018, notes receivable were issued directly from funds of TIAA and not directly from the participant's account. As such, these loans are not Plan assets. Loans to participants in the Plan are collateralized loans and are not reflected as a reduction of the participant's account balance, however their account balance is held as collateral to the loan. Total loans collateralized by participant balances as of December 31, 2022 and December 31, 2021 approximated \$37,000 and \$65,000, respectively.

Payment of Benefits - Benefits are recorded when paid.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

Administrative Expenses - Certain expenses incurred in connection with the general administration of the Plan that are paid by the Plan are recorded as deductions in the accompanying statement of changes in net assets available for benefits. Expenses that are paid directly by the Institute are excluded from these financial statements. Operating expenses of TIAA and CREF and bundled service providers are paid by participants and are reflected in the net depreciation in fair value of investments. These fees include management and administrations fees, which approximated \$180,000 during 2022.

Subsequent Events - The Plan has evaluated subsequent events through September 26, 2023, the date on which the financial statements were available to be issued.

NOTE 3 - FAIR VALUE MEASUREMENT

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to the valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy under FASB Topic 820 are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 - Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full-term of the asset or liability.

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 3 - FAIR VALUE MEASUREMENT (Continued)

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in methodologies used at December 31, 2022, and 2021.

TIAA Traditional Non-Benefit Responsive Annuity - Reported at fair value, which approximates contract value. Contract value equals the accumulated cash contributions and interest credited to the Plan's contract, less any withdrawals, and approximates fair value. The valuation of the Plan's investments in the TIAA Non-Benefit Responsive Annuity requires significant judgment due to the absence of quoted market prices and heavy reliance on Level 3 inputs. There is, however, a liquidity guarantee by the TIAA general account. The TIAA Non-Benefit Responsive Annuity is equal to the cumulative contributions invested plus a guaranteed rate of interest credited over the term based on the rate declared when the contribution is made. Crediting rates are a combination of a guaranteed rate and an annually established discretionary rate. Additionally, the discretionary rate applied to contributions received during a reporting period may vary from the discretionary rate applied to account balances at the end of the prior reporting period. When the accumulated value is converted to an annuity, it is converted to a present value annuity based on the participant's life expectancy. Contract value approximates a discounted cash flow value calculated using an appropriate risk-adjusted market discount rate, which correlates closely with TIAA Non-Benefit Responsive Annuity's historical crediting rates.

Mutual Funds - Valued at the daily closing price as reported by the funds. Mutual funds held by the Plan are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

CREF Accounts - Valued using market quotations or prices obtained from independent pricing sources that may employ various pricing methods to value the investments, including matrix pricing. Participants hold accumulation units in CREF accounts that are registered with the Securities and Exchange Commission. These accounts determine the closing accumulation unit value on any day the NASDAQ is open and are deemed to be readily traded.

TIAA Real Estate - Value is principally derived from the market value of the underlying real estate holdings or other real estate-related investments. The daily unit values for the TIAA Real Estate Account are updated overnight for each day that the NASDAQ is open and is listed on the securities exchange.

The methods described above might produce a fair value calculation that might not be indicative of net realizable value or reflective of future fair values. Further, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 3 - FAIR VALUE MEASUREMENT (Continued)

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2022 and 2021.

2022				
	Level 1	Level 2	Level 3	Total
CREF Accounts	\$ 36,585,251	-	-	\$ 36,585,251
TIAA Traditional Non-Benefit				
Responsive Annuity	-	-	\$ 23,646,229	23,646,229
TIAA Real Estate	2,274,182	-	-	2,274,182
Mutual Funds	9,755,789	-	-	9,755,789
	<u>\$ 48,615,222</u>	<u>-</u>	<u>\$ 23,646,229</u>	<u>\$ 72,261,451</u>
2021				
	Level 1	Level 2	Level 3	Total
CREF Accounts	\$ 45,913,631	-	-	\$ 45,913,631
TIAA Traditional Non-Benefit				
Responsive Annuity	-	-	\$ 23,535,672	23,535,672
TIAA Real Estate	2,212,091	-	-	2,212,091
Mutual Funds	12,544,786	-	-	12,544,786
	<u>\$ 60,670,508</u>	<u>-</u>	<u>\$ 23,535,672</u>	<u>\$ 84,206,180</u>

The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 3 - FAIR VALUE MEASUREMENT (Continued)

The following tables represent the Plan's Level 3 financial instruments, the valuation techniques used to measure the fair value of those financial instruments at December 31, significant unobservable inputs and the ranges of values for those inputs.

2022					
Type	Fair Value	Principal Valuation Technique	Significant Unobservable Inputs	Range**	
TIAA Traditional Non-Benefit Responsive Annuity	\$ 23,646,229	Discounted cash flow Theoretical transfer (exit value)	Risk-adjusted discount rate applied*	RA GRA RC	3.70% - 6.25% 3.70% - 6.25% 3.95% - 6.50%
2021					
Type	Fair Value	Principal Valuation Technique	Significant Unobservable Inputs	Range**	
TIAA Traditional Non-Benefit Responsive Annuity	\$ 23,535,672	Discounted cash flow Theoretical transfer (exit value)	Risk-adjusted discount rate applied*	RA GRA RC	3.00% - 3.80% 3.00% - 3.80% 2.75% - 3.90%

* Unobservable inputs include discount rate applied.

** RA - Retirement Annuity, GRA - Group Retirement Annuity, RC - Retirement Choice

NOTE 4 - BENEFIT-RESPONSIVE ACCOUNTS

The TIAA Traditional Benefit-Responsive Annuity Contract (TIAA Traditional) and the TIAA Stable Value Fund (Stable Value) are fully benefit-responsive annuity contracts with TIAA. TIAA maintains the TIAA Traditional contributions in a general account and the Stable Value contributions in a non-unitized separate account. Participant accounts are credited with earnings on the underlying investments and charged for participant withdrawals and administrative expenses. TIAA is contractually obligated to repay the principal and a specified interest rate that is guaranteed to the Plan.

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 4 - BENEFIT-RESPONSIVE ACCOUNTS (Continued)

TIAA Traditional is an unallocated fixed annuity contract that is fully and unconditionally guaranteed by TIAA. TIAA Traditional provides a guarantee of principal, a guaranteed minimum rate of interest (generally 3%, but in some recent contracts between 1% and 3%) and the potential for additional interest if declared by TIAA. Additional interest, when declared, remains in effect for the “declaration year,” which begins each March 1. Additional interest is not guaranteed for future years. Contributions to a participant’s account purchases a guaranteed amount of lifetime annuity income. When a participant’s account in the TIAA Traditional is annuitized based on available options, the present value of the stream of payments is equal to the account balance. The subsequent stream of annuity payments occurs outside of the plan and does not represent an obligation of the Plan.

Stable Value is a fixed-rate group annuity contract issued by TIAA that provides a guaranteed minimum rate of interest between 1% and 3% before deductions for contract fees with the potential for crediting of additional interest above the guaranteed minimum. Additional interest can be declared by the TIAA board of trustees, which remains in effect for six-month periods and is not guaranteed for future periods.

These contracts meet the fully benefit-responsive investment contract criteria and therefore are reported at contract value. Contract value is the relevant measure for fully benefit-responsive investment contracts because this is the amount received by participants if they were to initiate permitted transactions under the terms of the Plan. Contract value, as reported to the Plan by TIAA, represents contributions, interest credited and transfers, if any, less participant withdrawals. TIAA Traditional and Stable Value are immediately liquid to participants and do not have participant-level withdrawal restrictions, except that immediate transfers from Stable Value cannot be made to competing investment options pursuant to the contract’s equity wash provisions.

The Plan’s ability to receive amounts due is dependent on the issuer’s ability to meet its financial obligations. The issuer’s ability to meet its financial obligations may be affected by future economic and regulatory developments.

Certain events limit the ability of the Plan to transact at contract value with the issuer, including the following: (1) amendments to the Plan documents (including complete or partial Plan termination or merger with another plan); (2) changes to the Plan’s prohibition on competing investment options or deletion of equity wash provisions; (3) bankruptcy of the Plan sponsor or other Plan sponsor events that cause a significant withdrawal from the Plan; (4) the failure of the trust to qualify for exemption from federal income taxes or any required prohibited transaction exemption under ERISA; or (5) premature termination of the contract.

The fully benefit-responsive contracts do not permit TIAA to terminate the agreement prior to the scheduled maturity date.

The following table represents the Plan’s fully benefit-responsive assets at contract value as of December 31:

	<u>2022</u>	<u>2021</u>
TIAA Traditional	\$ 817,536	\$ 921,947
Stable Value	<u>651,886</u>	<u>655,945</u>
	\$ <u>1,469,422</u>	\$ <u>1,577,892</u>

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 5 - BENEFIT ANNUITIES

Upon retirement, a participant's accumulation units can be converted to annuity units based on the participant's age, his or her elected income option and the current value of the annuity units. The dollar value of the annuity, and therefore the amount of each payment, is adjusted annually based on investment performance, mortality and expense provisions.

NOTE 6 - RELATED-PARTY TRANSACTIONS AND PARTY-IN-INTEREST TRANSACTIONS

The Plan invests in funds and accounts managed by TIAA and CREF. In addition, the Institute may pay certain administrative expenses or perform administrative functions on behalf of the Plan, for which no fees are charged. These transactions qualify as party-in-interest transactions that are allowable under ERISA.

NOTE 7 - PLAN TERMINATION

Although it has not expressed any intent to do so, the Institute has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants would become 100% vested in their employer contributions.

NOTE 8 - FEDERAL INCOME TAX STATUS

The Plan has been designated to qualify under Section 403(b) of the Internal Revenue Code (IRC). At this time, the Internal Revenue Service (IRS) has not established a process for issuing determination and opinion letters for 403(b) plans. The Plan administrator believes that the Plan is currently designed and being operated in compliance with the applicable provisions of the IRC and has no income subject to unrelated business income tax, therefore no provision for income taxes has been included in the Plan's financial statements.

U.S. GAAP requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions, however there are currently no audits for any tax periods in progress. The Plan administrator believes that the Plan is no longer subject to income tax examinations for years prior to 2019.

NOTE 9 - INFORMATION CERTIFIED BY TRUSTEE

Certain information related to investments disclosed in the accompanying financial statements and ERISA - required supplemental schedule, including investments and notes receivable from participants held at December 31, 2022 and 2021, and net depreciation in fair value of investments, interest and dividends and interest income on notes receivable from participants for the year ended December 31, 2022, was obtained or derived from information supplied to the Plan administrator and certified as complete and accurate by TIAA and CREF for TIAA, CREF and TIAA and CREF Investment Products, or as authorized agent for TIAA and CREF Trust Company, FSB (the trustee of the Plan).

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2022 AND 2021

NOTE 10 - RISKS AND UNCERTAINTIES

The Plan invests in securities that are exposed to various risks, such as interest rate, market, and credit risks. Because of the level of risk associated with certain investment securities, it is at least reasonably possible that changes in value will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits.

SUPPLEMENTARY INFORMATION

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

EIN: 25-0965280

PLAN NUMBER: 001

SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

(a)	(b) Identity of Issue, Borrower, Lessor or Similar Party	(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
*	TIAA	Traditional Non Benefit Responsive	N/A	\$ 23,646,229
*	TIAA	CREF Stock	N/A	9,698,961
*	TIAA	Lifecycle 2045-RTMT	N/A	3,127,533
*	TIAA	CREF Social Choice	N/A	2,769,420
*	TIAA	Lifecycle 2040-RTMT	N/A	2,685,230
*	TIAA	CREF Growth	N/A	2,486,120
*	TIAA	TIAA Real Estate x1	N/A	2,274,182
*	TIAA	CREF Global Equities	N/A	2,262,399
*	TIAA	CREF Equity Index	N/A	2,248,370
	Schwab	S&P 500 Index Fund	N/A	2,053,209
	Columbia	Dividend Income Inst3	N/A	1,815,897
	Hartford	International Stk SDR	N/A	1,815,319
*	TIAA	Lifecycle 2050-RTMT	N/A	1,661,710
*	TIAA	Lifecycle 2025-RTMT	N/A	1,475,014
*	TIAA	Lifecycle 2035-RTMT	N/A	1,435,744
*	TIAA	Lifecycle 2030-RTMT	N/A	1,330,140
*	TIAA	Lfcyle Idx RtIn-Inst	N/A	1,247,103
*	TIAA	CREF Core Bond	N/A	1,147,303
*	TIAA	Lifecycle 2055-RTMT	N/A	954,047
	AB Global	Bond Fund Class Z	N/A	931,845
	Delaware	Small Cap Core Fd R6	N/A	902,174
*	TIAA	Lifecycle 2020-RTMT	N/A	853,838
	Western Asset	Core Bond IS	N/A	853,611
*	TIAA	TIAA Traditional Benefit Responsive	N/A	817,536
*	TIAA	TIAA Stable Value	N/A	651,886
*	TIAA	CREF Inflation Linked Bond	N/A	619,751
*	TIAA	CREF Money Market	N/A	437,723
	American Funds	Balanced Fd R6	N/A	430,485
	Principal	Glbl Real Est Sec R6	N/A	382,627
	Vanguard	Mid-Cap Idx Adm	N/A	219,131
	American Funds	New World R6	N/A	155,776
*	TIAA	Lifecycle 2060-RTMT	N/A	140,507
	American Cent	MdCpVa Fd Cla R6	N/A	105,081
	PIMCO	Income Fd Institutional	N/A	48,783
	BlackRock	Mid Cap Growth Eq K	N/A	41,851
*	TIAA	Lifecycle 2065-RTMT	N/A	4,338
	Subtotal			73,730,873

CARNEGIE INSTITUTE DEFINED CONTRIBUTION
AND TAX-DEFERRED ANNUITY RETIREMENT PLAN

EIN: 25-0965280

PLAN NUMBER: 001

SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

(Continued)

(a)	(b) Identity of Issue, Borrower, Lessor or Similar Party	(c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
	Balance forward			\$ 73,730,873
*	Participant Loans	Loans to participants (with interest rates at 4.25% to 8.00% and various maturities through 2031)	-	<u>204,667</u>
				<u>\$ 73,935,540</u>

* Party-in-interest

See independent auditor's report.

Schedule H, Line 4i
Schedule of Assets (Held At End of Year)

Name of Plan:

► Carnegie Institute Defined Contribution and Tax Deferred Annuity Retirement Plan

Employer Identification Number: ► 25-0965280

For plan year (beginning/ending): ► 1/1/2022 to 12/31/2022

Plan number: ► 001

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par or maturity value	(d) Cost	(e) Current value
*	College Retirement Equities Fund variable annuities	TIAA Traditional Benefit Responsive		\$ 782,614.60
*	College Retirement Equities Fund variable annuities	TIAA Traditional Non Benefit Responsive		\$ 21,650,752.52
*	College Retirement Equities Fund variable annuities	TIAA Traditional Benefit Responsive 2		\$ 34,921.22
*	College Retirement Equities Fund variable annuities	TIAA Traditional Non Benefit Responsive 2		\$ 1,995,476.44
*	College Retirement Equities Fund variable annuities	TIAA Stable Value		\$ 651,886.10
	College Retirement Equities Fund variable annuities	Plan Loan Default Fund		\$ 1,761.36
*	College Retirement Equities Fund variable annuities	CREF Stock R2		\$ 9,698,962.89
*	College Retirement Equities Fund variable annuities	CREF Money Market R2		\$ 437,721.31
*	College Retirement Equities Fund variable annuities	CREF Money Market R1		\$ 2.33
*	College Retirement Equities Fund variable annuities	CREF Social Choice R2		\$ 2,769,420.41
*	College Retirement Equities Fund variable annuities	CREF Global Equities R2		\$ 2,262,398.63
*	College Retirement Equities Fund variable annuities	CREF Growth R2		\$ 2,486,119.50
*	College Retirement Equities Fund variable annuities	CREF Equity Index R2		\$ 2,248,369.64
*	College Retirement Equities Fund variable annuities	CREF Inflation-Linked Bond R2		\$ 619,751.37
*	College Retirement Equities Fund variable annuities	TIAA Real Estate		\$ 2,274,181.72
*	College Retirement Equities Fund variable annuities	CREF Core Bond R2		\$ 1,147,302.79
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2020-Inst		\$ 853,838.31
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2025-Inst		\$ 1,475,013.49
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2030-Inst		\$ 1,330,140.34
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2035-Inst		\$ 1,435,744.23
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2040-Inst		\$ 2,685,230.15
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2045-Inst		\$ 3,127,533.10
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2050-Inst		\$ 1,661,710.29
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2055-Inst		\$ 954,046.74
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx RtlN-Inst		\$ 1,247,102.78
	College Retirement Equities Fund variable annuities	American Funds Balanced Fd R6		\$ 430,485.44
	College Retirement Equities Fund variable annuities	Vanguard Mid-Cap Idx Adm		\$ 219,130.54
	College Retirement Equities Fund variable annuities	Western Asset Core Bond IS		\$ 853,610.56
	College Retirement Equities Fund variable annuities	American Cent MdCpVa Fd Cla R6		\$ 105,080.93
	College Retirement Equities Fund variable annuities	American Funds New World R6		\$ 155,775.69
	College Retirement Equities Fund variable annuities	BlackRock Mid Cap Growth Eq K		\$ 41,851.04
	College Retirement Equities Fund variable annuities	Columbia Dividend Income Inst3		\$ 1,815,896.85
	College Retirement Equities Fund variable annuities	Hartford International Stk SDR		\$ 1,815,319.00
	College Retirement Equities Fund variable annuities	PIMCO Income Fd Institutional		\$ 48,782.54
	College Retirement Equities Fund variable annuities	Principal Gbl Real Est Sec R6		\$ 382,626.49
	College Retirement Equities Fund variable annuities	Schwab S&P 500 Index Fund		\$ 2,053,209.05
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2060-Inst		\$ 140,507.19
*	College Retirement Equities Fund variable annuities	TIAA-CREF Lfcyle Idx 2065-Inst		\$ 4,337.55
	College Retirement Equities Fund variable annuities	AB Large Cap Growth Fund Z		\$ 931,844.63
	College Retirement Equities Fund variable annuities	Delaware Small Cap Core Fd R6		\$ 902,174.42
	College Retirement Equities Fund variable annuities	Participant Loan Fund		\$ 202,906.33
	Grand Total			\$ 73,935,540