

<p>Form 5500</p> <p>Department of the Treasury Internal Revenue Service</p> <hr/> <p>Department of Labor Employee Benefits Security Administration</p> <hr/> <p>Pension Benefit Guaranty Corporation</p>	<p>Annual Return/Report of Employee Benefit Plan</p> <p>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).</p> <p>▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	<p>OMB Nos. 1210-0110 1210-0089</p> <hr/> <p style="font-size: 24pt; font-weight: bold;">2024</p> <hr/> <p>This Form is Open to Public Inspection</p>
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Part I Annual Report Identification Information
 For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A This return/report is for: a multiemployer plan a multiple-employer plan (Filers checking this box must provide 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

<p>1a Name of plan <u>NAS PRIMARY RETIREMENT PLAN</u></p>	<p>1b Three-digit plan number (PN) ▶ <u>003</u></p>
<p>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, country, and ZIP or foreign postal code (if foreign, see instructions) <u>NATIONAL ACADEMY OF SCIENCES</u></p> <p><u>500 5TH STREET NW</u> <u>WASHINGTON, DC 20001</u></p>	<p>1c Effective date of plan <u>01/01/1989</u></p> <p>2b Employer Identification Number (EIN) <u>53-0196932</u></p> <p>2c Plan Sponsor's telephone number <u>202-334-3400</u></p> <p>2d Business code (see instructions) <u>541990</u></p>

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.	10/13/2025	EBUN JOHNSON
	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

3a Plan administrator's name and address <input checked="" type="checkbox"/> 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	3212
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 a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....	6a(1)	1200
	6a(2)	1202
	6b	0
	6c	1996
	6d	3198
	6e	11
	6f	3209
	6g(1)	3165
6g(2)	3164	
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:
2A 2C 2F 2G 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) <input checked="" type="checkbox"/> Insurance	(1) <input checked="" type="checkbox"/> Insurance
(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts	(2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts
(3) <input checked="" type="checkbox"/> Trust	(3) <input checked="" type="checkbox"/> Trust
(4) <input type="checkbox"/> General assets of the sponsor	(4) <input type="checkbox"/> 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

- (1) **R** (Retirement Plan Information)
- (2) **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) **DCG** (Individual Plan Information) – Number Attached _____
- (5) **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

- (1) **H** (Financial Information)
- (2) **I** (Financial Information – Small Plan)
- (3) **A** (Insurance Information) – Number Attached 1
- (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 2024 Form M-1 annual report. If the plan was not required to file the 2024 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

2024

This Form is Open to Public Inspection

For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan NAS PRIMARY RETIREMENT PLAN		B Three-digit plan number (PN) ▶ 003
C Plan sponsor's name as shown on line 2a of Form 5500 NATIONAL ACADEMY OF SCIENCES		D Employer Identification Number (EIN) 53-0196932

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.

1 Coverage Information:

(a) Name of insurance carrier

TIAA-CREF

(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	151062	1789	01/01/2024	12/31/2024

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
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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	

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(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	81286293
5	Current value of plan's interest under this contract in separate accounts at year end.....	99532362
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) <input type="checkbox"/> individual policies (2) <input type="checkbox"/> group deferred annuity (3) <input type="checkbox"/> other (specify) ▶	
f	If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ <input type="checkbox"/>	
7	Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)	
a	Type of contract: (1) <input type="checkbox"/> deposit administration (2) <input type="checkbox"/> immediate participation guarantee (3) <input checked="" type="checkbox"/> guaranteed investment (4) <input type="checkbox"/> other ▶	
b	Balance at the end of the previous year	7b 80004260
c	Additions: (1) Contributions deposited during the year	7c(1) 1008314
	(2) Dividends and credits.....	7c(2) 0
	(3) Interest credited during the year.....	7c(3) 3596657
	(4) Transferred from separate account	7c(4) 4870762
	(5) Other (specify below)..... ▶ PLAN SERVICING CREDIT	7c(5) 55344
	(6) Total additions	7c(6) 9531077
d	Total of balance and additions (add lines 7b and 7c(6))	7d 89535337
e	Deductions:	
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1) 5260264
	(2) Administration charge made by carrier.....	7e(2) 0
	(3) Transferred to separate account	7e(3) 2984967
	(4) Other (specify below)..... ▶ FEES	7e(4) 3813
(5) Total deductions	7e(5) 8249044	
f	Balance at the end of the current year (subtract line 7e(5) from line 7d).....	7f 81286293

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 <input type="checkbox"/> paid in cash, or <input type="checkbox"/> 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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning **01/01/2024** and ending **12/31/2024**

A Name of plan NAS PRIMARY RETIREMENT PLAN	B Three-digit plan number (PN) ▶	003
C Plan sponsor's name as shown on line 2a of Form 5500 NATIONAL ACADEMY OF SCIENCES	D Employer Identification Number (EIN) 53-0196932	

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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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)

TIAA

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 50 64 65	NONE	172600	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	0	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

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

CAP FINANCIAL PARTNERS, LLC

26-0058143

(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?
16 50	NONE	50625	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

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

GROOM LAW GROUP

52-1219029

(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?
29 50	NONE	30988	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

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)

GRANT THORNTON LLP

36-6055558

(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?
10 50	NONE	17500	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

(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 <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>

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

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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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>NAS PRIMARY RETIREMENT PLAN</u>	B Three-digit plan number (PN)	<u>003</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>NATIONAL ACADEMY OF SCIENCES</u>	D Employer Identification Number (EIN) <u>53-0196932</u>	

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:	<u>TIAA REAL ESTATE</u>		
b Name of sponsor of entity listed in (a):	<u>TIAA-CREF</u>		
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)	
<u>13-1624203-004</u>	<u>P</u>		<u>12814725</u>
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)

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024	
A Name of plan NAS PRIMARY RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 003
C Plan sponsor's name as shown on line 2a of Form 5500 NATIONAL ACADEMY OF SCIENCES	D Employer Identification Number (EIN) 53-0196932

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)	
(9) Value of interest in common/collective trusts	1c(9)	
(10) Value of interest in pooled separate accounts	1c(10)	12686719
(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)	273878493
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	81286293
(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	366569472	398240238
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	366569472	398240238

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)	15709138	
(B) Participants.....	2a(1)(B)		
(C) Others (including rollovers).....	2a(1)(C)		
(2) Noncash contributions.....	2a(2)		
(3) Total contributions. Add lines 2a(1)(A), (B), (C), and line 2a(2).....	2a(3)		15709138
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)		
(F) Other.....	2b(1)(F)	3596657	
(G) Total interest. Add lines 2b(1)(A) through (F).....	2b(1)(G)		3596657
(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)	9290622	
(D) Total dividends. Add lines 2b(2)(A), (B), and (C).....	2b(2)(D)		9290622
(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)		
(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)		

		(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)		-531512
(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)		26477733
c Other income	2c		288839
d Total income. Add all income amounts in column (b) and enter total	2d		54831477

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	20011482	
(2) To insurance carriers for the provision of benefits	2e(2)	2874016	
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		22885498
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees	2i(2)	275213	
(3) Recordkeeping fees	2i(3)		
(4) IQPA audit fees	2i(4)		
(5) Investment advisory and investment management fees	2i(5)		
(6) Bank or trust company trustee/custodial fees	2i(6)		
(7) Actuarial fees	2i(7)		
(8) Legal fees	2i(8)		
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)		
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		275213
j Total expenses. Add all expense amounts in column (b) and enter total	2j		23160711

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		31670766
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: GRANT THORNTON, LLP

(2) EIN: 36-6055558

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

(1) This form is filed for a CCT, PSA, DCG 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. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

During the plan year:

	Yes	No	Amount
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.)		X	
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.)		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.)		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.)		X	
e Was this plan covered by a fidelity bond?	X		5000000
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	
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?		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?		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		
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.)		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?		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		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.			

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) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection.
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A Name of plan <u>NAS PRIMARY RETIREMENT PLAN</u>	B Three-digit plan number (PN) ▶	<u>003</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>NATIONAL ACADEMY OF SCIENCES</u>	D Employer Identification Number (EIN) <u>53-0196932</u>	

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	<u>0</u>
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): <u>13-1624203</u>		
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	<u>92</u>

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	<u>15709138</u>
b Enter the amount contributed by the employer to the plan for this plan year	6b	<u>15709138</u>
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	<u>0</u>

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

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: <input type="checkbox"/> last contributing employer <input type="checkbox"/> alternative <input type="checkbox"/> reasonable approximation (see instructions for required attachment).....	14a	
b The plan year immediately preceding the current plan year. <input type="checkbox"/> 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. <input type="checkbox"/> 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) and (b):

a Enter the percentage of plan assets held as:
 Public Equity: _____% Private Equity: _____% Investment-Grade Debt and Interest Rate Hedging Assets: _____%
 High-Yield Debt: _____% Real Assets: _____% Cash or Cash Equivalents: _____% Other: _____%

b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets:
 0-5 years 5-10 years 10-15 years 15 years or more

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: _____

Part VII IRS Compliance Questions

21a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

21b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).
 Design-based safe harbor method
 "Prior year" ADP test
 "Current year" ADP test
 N/A

22 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter ___/___/___ (MM/DD/YYYY) and the Opinion Letter serial number _____.

Financial Statements and Report of
Independent Certified Public
Accountants

**National Academy of Sciences
Primary Retirement Plan**

December 31, 2024 and 2023

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

The Participants and Plan Administrator
National Academy of Sciences Primary Retirement Plan

Scope and nature of the ERISA Section 103(a)(3)(C) audit

We have performed audits of the financial statements of National Academy of Sciences Primary Retirement Plan (the "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) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits – modified cash basis as of December 31, 2024 and 2023, and the related statement of changes in net assets available for benefits – modified cash basis for the year ended December 31, 2024, 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, 2024 and 2023, and for the year ended December 31, 2024, stating that the certified investment information, as described in Note C 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 the modified cash basis of accounting described in Note B.
- 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 (US 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.

Emphasis of matter – Basis of accounting

We draw attention to Note B of the financial statements, which describes the basis of accounting. The financial statements are prepared on the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

Responsibilities of management for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the modified cash basis of accounting described in Note B, and for determining that the modified cash basis of accounting is an acceptable basis for the preparation of the financial statements in the circumstances. Management is also responsible 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.

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 US 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 US 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 the modified cash basis of accounting described in Note B.

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 the modified cash basis of accounting described in Note B.

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 schedules required by ERISA

The supplemental schedule of assets (held at end of year) as of December 31, 2024 is presented for purposes 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 supplementary 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 the auditing procedures applied in the audits of the financial statements and certain additional procedures. These additional procedures included 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 US 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).

Grant Thornton LLP

Philadelphia, Pennsylvania
October 3, 2025

**National Academy of Sciences
Primary Retirement Plan**

**STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
(MODIFIED CASH BASIS)**

December 31,

	<u>2024</u>	<u>2023</u>
ASSETS		
Investments, at fair value	\$ 398,240,238	\$ 366,569,472
NET ASSETS AVAILABLE FOR BENEFITS	<u>\$ 398,240,238</u>	<u>\$ 366,569,472</u>

The accompanying notes are an integral part of these financial statements.

**National Academy of Sciences
Primary Retirement Plan**

**STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
(MODIFIED CASH BASIS)**

Year ended December 31, 2024

Additions to net assets attributed to

Investment income	
Net appreciation on fair value of investments	\$ 25,946,221
Interest and dividends	<u>12,887,279</u>
Total investment income	38,833,500
Employer contributions	15,709,138
Plan servicing credit	<u>288,839</u>
Total additions	<u>54,831,477</u>

Deductions from net assets attributed to

Benefits paid to participants	22,885,498
Administrative expenses, paid from servicing credit	<u>275,213</u>
Total deductions	<u>23,160,711</u>

NET INCREASE 31,670,766

Net assets available for benefits

Beginning of year	<u>366,569,472</u>
End of year	<u><u>\$ 398,240,238</u></u>

The accompanying notes are an integral part of this financial statement.

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS

December 31, 2024 and 2023

NOTE A - DESCRIPTION OF PLAN AND ADMINISTRATION

The following description of the National Academy of Sciences Primary Retirement Plan (the “Plan”) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan’s provisions.

General

The Plan was established as of January 1, 1989 for the benefit of all eligible employees of the National Academy of Sciences (the “Academy”), including any of its constituent organizational units such as the National Academy of Engineering, the National Academy of Medicine, and the National Research Council. Effective January 1, 2024, the Plan was restated, which superseded all previous Plan documents. The funding vehicles under the Plan consist of group investments issued by Teachers Insurance and Annuity Association (“TIAA”), College Retirement Equities Fund (“CREF”), as well as mutual funds issued by third-parties. TIAA and CREF serve as custodians of the Plan. The Academy, which is the employer and the sponsor of the Plan, is the administrator of the Plan. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (“ERISA”), as amended.

Funding Policy

The Plan is a noncontributory defined contribution (money purchase) plan whereby the Academy contributes an amount to the Plan equal to a percentage of the participant’s compensation as defined in the Plan. The applicable percentage varies according to the participant’s age and compensation level. There are no participant contributions.

Contributions are made to the Plan as follows, subject to regulatory limits:

<u>Participant’s Age</u>	<u>Plan Contributions on the First \$26,000 of Annual Compensation</u>	<u>Plan Contributions on the Annual Compensation in Excess of \$26,000</u>
55 and above	14%	19%
45-54	9%	14%
35-44	7%	10%
Under 35	6.34%	6.34%

Investment Options

Plan contributions are invested at the direction of each participant in group investments issued by TIAA or in third-party mutual funds. Each participant may have individual contracts with TIAA, CREF, or both. The allocation of assets and future contributions may be changed by the participants at any time by notifying TIAA. Participants may direct contributions to any of the available investment options. In addition, there are five funds that hold assets but are not open to new contributions.

Participant Accounts

Each participant’s account is credited with the Academy’s contributions and an allocation of Plan earnings (losses), thereon. Allocations are based on participant earnings or account balances, as defined, on a daily basis. Upon enrollment in the Plan, a participant may direct employer contributions in any of the investment

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

options offered by the Plan in increments of whole number percentages. Participants may change their investment options at any time, provided the transfer is \$1,000 or greater (or the entire balance in an investment option, if less).

Payment of Benefits

Upon termination of service (including death, disability, or retirement), a participant may elect to leave the balance in the Plan, receive a periodic payout, receive a lump sum amount equal to the value of their vested interest, or rollover the balance into another qualified plan, annuity, or an Individual Retirement Account. If a participant elects to receive a lump sum payment from the TIAA Fund, they must do so within 120 days of termination. In addition, a participant may request an in-service distribution of his or her benefit on or after attaining Normal Retirement Age.

Participation and Vesting

All salaried employees of the Academy employed on January 1, 1989 (the inception of the Plan) were eligible to participate in the Plan on that date. Salaried employees hired after January 1, 1989 and hourly employees who are scheduled to work at a rate of at least fifty percent (50%) time are eligible to participate in the Plan upon completing 181 days of service. Employees are 100% vested in all Plan contributions made on their behalf. Participation is mandatory and effective the first day of the pay period following eligibility.

NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The accompanying financial statements and the related schedule are prepared on the modified cash basis of accounting. Consequently, certain revenue and the related assets are recognized when received rather than when earned and certain expenses are recognized when paid rather than when the related obligations incurred. Employer contributions are recorded when received by TIAA and are not accrued when expensed by the Academy.

Use of Estimates

The preparation of financial statements in conformity with the modified cash basis requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, and changes therein and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment Valuation

The Plan's investments are reported at fair 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. Plan management determines the Plan's valuation policies utilizing information provided by the Plan's custodian. See Note D for discussion of fair value measurements.

Purchases and sales are recorded on a trade-date basis. Interest income is recorded on a modified cash basis. Dividends are recorded on the ex-dividend date. Net appreciation (depreciation) includes the Plan's gains and losses on investments bought and sold, as well as held during the year.

Payment of Benefits

Benefits are recorded when paid.

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

Administrative Expenses

In accordance with the terms of the Plan, the administrative expenses of the Plan are paid by the Academy, except for fees associated with certain participant directed investment transactions. Unless paid by the Academy, all fees and expenses incurred in connection with the operation and administration of the Plan, including, but not limited to, legal, accounting, actuarial, investment, management, and administrative fees and expenses, are paid out of Plan assets to the extent that it is legally permissible for these fees and expenses to be so paid. To the extent permitted under ERISA, plan administrative expenses may be paid out of a revenue credit account earned by the Plan. The revenue credit account is funded by TIAA under the recordkeeping agreement with the Plan sponsor and can be used to pay direct, reasonable, and necessary expenses of the Plan.

The Academy may advance amounts properly chargeable to the Plan and then obtain reimbursement from the Plan for these advances.

NOTE C - INVESTMENTS AND INFORMATION CERTIFIED BY THE CUSTODIANS

Investments, interest and dividend income, net appreciation (depreciation) in fair value of investments, and transfers between investment funds utilized in the preparation of the accompanying financial statements and related schedule was provided to the Plan Administrator and certified as complete and accurate by TIAA and CREF, custodians of the Plan. The certification also extends to those investments, if any, which TIAA Trust, N.A., a national trust bank, held as a directed trustee or custodian that were record kept by TIAA.

NOTE D - FAIR VALUE MEASUREMENTS

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Financial Accounting Standards Board Accounting Standards Codification Section 820 establishes a fair value hierarchy, which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1 - Quoted prices in active markets for identical assets or liabilities.

Level 2 - Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The following discussion describes the valuation methodologies used for financial assets measured at fair value. The techniques utilized in estimating the fair values are affected by the assumptions used, including discount rates and estimates of the amount and timing of future cash flows. Care should be exercised in deriving conclusions about the Plan, its value or financial position based on the fair value information of financial assets presented.

Fair value estimates are made at a specific point in time, based on available market information and judgments about the financial asset, including estimates of timing, amount of expected future cash flows,

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

and the credit standing of the issuer. In some cases, the fair value estimates cannot be substantiated by comparison to independent markets. In addition, the disclosed fair value may not be realized in the immediate settlement of the financial asset. Furthermore, the disclosed fair values do not reflect any premium or discount that could result from offering for sale at one time an entire holding of a particular financial asset. Potential taxes and other expenses that would be incurred in an actual sale or settlement are not reflected in amounts disclosed.

The following methods, assumptions, and inputs were used to estimate the fair value of each class of financial instruments:

- The fair values of mutual fund investments (registered investment companies) are determined by obtaining quoted prices on nationally recognized securities exchanges (Level 1).
- The fair values of accumulation units held by the Plan in the CREF accounts (registered investment companies held as variable annuity accounts) are based on each account's daily NAV, which is considered by Plan management to be the best approximation of fair value. These accounts are not exchange-traded. Data for NAVs are available daily to Plan Administrators and client investors on NASDAQ's website (Level 1) and provide sufficient corroborative evidence to ascertain the relationship between each fund's NAV and the values of individual underlying holdings. Underlying holdings are primarily valued using market quotations or prices obtained from independent pricing sources.
- The fair value of the Plan's interest in the TIAA Real Estate Account (a pooled separate account) is based on the fund's daily NAV, which is considered by Plan management to be the best approximation of fair value. The unit value of the fund is calculated daily and available to Plan Administrators and client investors on NASDAQ's website. Underlying holdings are primarily valued using independent appraisals or independent pricing sources (Level 2). Although the underlying assets of the fund cannot be quickly sold and converted to liquid assets, the TIAA general account provides the fund with a liquidity guarantee whereby TIAA ensures that the account has funds available to meet participant redemption, transfer, or cash withdrawal requests.
- Investments in non-benefit responsive TIAA Traditional Annuity contracts are reported at contract value, which approximates fair value. As these investments are contract-based, observable prices for identical or similar investments do not exist and, accordingly, these investments are valued using unobservable inputs (Level 3). The contract value equals the accumulated cash contributions and interest credited to the contract, less any withdrawals. Liquidity restrictions apply to certain of these investments that could impact the value realized upon exiting certain types of contracts within the TIAA Traditional Annuity account. See also Note E for discussion of the TIAA Traditional Annuity. In determining the reasonableness of the methodology, Plan management evaluates a variety of factors including a review of existing contracts, economic conditions, industry and market developments, and overall credit ratings. Certain unobservable inputs are assessed through review of contract terms, while others are substantiated utilizing available market data.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, 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.

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

Plan investments measured at fair value on a recurring basis as of December 31, 2024 are summarized as follows:

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
TIAA Traditional Annuities - Non Benefit-Responsive	\$ -	\$ -	\$ 81,286,293	\$ 81,286,293
TIAA Real Estate Fund	-	12,814,725	-	12,814,725
Registered Investment Companies	<u>304,139,220</u>	<u>-</u>	<u>-</u>	<u>304,139,220</u>
Total	<u>\$ 304,139,220</u>	<u>\$ 12,814,725</u>	<u>\$ 81,286,293</u>	<u>\$ 398,240,238</u>

Plan investments measured at fair value on a recurring basis as of December 31, 2023 are summarized as follows:

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
TIAA Traditional Annuities - Non Benefit-Responsive	\$ -	\$ -	\$ 80,004,260	\$ 80,004,260
TIAA Real Estate Fund	-	12,686,719	-	12,686,719
Registered Investment Companies	<u>273,878,493</u>	<u>-</u>	<u>-</u>	<u>273,878,493</u>
Total	<u>\$ 273,878,493</u>	<u>\$ 12,686,719</u>	<u>\$ 80,004,260</u>	<u>\$ 366,569,472</u>

Gains and losses (realized and unrealized) included in changes in net assets are reported in net appreciation in fair value of investments in the statement of changes in net assets available for benefits.

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.

The Plan's Level 3 assets for the year ended December 31, 2024 included purchases of \$5,934,421. There were no transfers into or out of Level 3 during 2024 and 2023.

The following table presents information about significant unobservable inputs related to the Plan's investment in assets categorized as Level 3 at December 31, 2024 and 2023:

<u>Type</u>	<u>Valuation Technique</u>	<u>Significant Unobservable Inputs</u>	<u>Rates</u>	<u>Year</u>	<u>Fair Value</u>
TIAA Traditional Annuities	Discounted cash flow and Theoretical transfer (exit value)	Risk-adjusted discount rate applied	GRA: 3.65% to 6.50%	2024	\$ 81,286,293
			GRA: 4.00% to 6.75%	2023	80,004,260

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

NOTE E - TIAA TRADITIONAL ANNUITY

The TIAA Traditional Annuity contracts are guaranteed fixed annuity contracts available as investment options to Plan participants. Each contract is fully and unconditionally guaranteed by TIAA. The Traditional Annuities are offered through Group Retirement Annuities (“GRA”). The type of contract through which a participant invests in the TIAA Traditional Annuity determines the applicability of certain account features, such as the guaranteed minimum interest rate, additional interest declarations, the degree of liquidity of the participant’s account, and the options for receiving income upon retirement.

When participants choose to allocate a portion of their retirement savings to the TIAA Traditional Annuity during the accumulation phase of the contract, their contributions purchase a specific amount of lifetime income based on the contractual rate schedule in effect at the time the premium is paid. Participants’ principal, plus a specified minimum rate of interest, is guaranteed by TIAA’s claims-paying ability. The TIAA Traditional Annuity also provides the potential for additional interest if declared by TIAA’s Board of Trustees. Additional interest, when declared, remains in effect for the declaration year, which begins each March 1 for accumulating annuities, and January 1 for lifetime payout annuities. Additional interest is not guaranteed for future years. Together, the guaranteed minimum and additional amounts make up the crediting interest rate. For GRA contracts, the crediting interest rate was 5.25% and 6.50% as of December 31, 2024 and 2023, respectively.

All GRA contracts require withdrawals in the form of a lifetime payout annuity or in periodic installments over a 10-year period. Therefore, the GRA contracts are not fully benefit-responsive; balances in these contracts at fair value totaled \$81,286,293 and \$80,004,260 at December 31, 2024 and 2023, respectively. When a participant’s accumulation in the TIAA Traditional Annuity is converted to a lifetime payout annuity, the present value of the stream of payments is equal to the accumulated balance, and the entire amount is recorded as a distribution in the statement of changes in net assets available for benefits.

NOTE F - RELATED PARTY TRANSACTIONS

Certain Plan investments are shares of fixed annuities, pooled separate accounts, or registered investment companies managed by TIAA or CREF. TIAA and CREF are the custodians as defined by the Plan and, therefore, these transactions all qualify as party-in-interest transactions.

Prior to January 1, 2008, the Academy’s long-term disability benefits included replacement of Academy contributions to the Plan. The Academy has insurance to cover its obligation for this benefit.

NOTE G - PLAN TERMINATION

The Academy has expressed its intent to continue the Plan indefinitely for the benefit of its employees but reserves the right to terminate or amend the Plan, if necessary. In the event the Plan is terminated or contributions are discontinued, the Academy will notify all participants of the termination and assets will be distributed in accordance with ERISA.

NOTE H - TAX STATUS

The Academy received a favorable determination letter dated April 16, 2014 from the Internal Revenue Service (“IRS”) on the qualified status of the Plan under applicable sections of the Internal Revenue Code (“IRC”). The Plan is exempt from federal income taxes under Section 401(a) of the IRC. Although the Plan has been amended since receiving the determination letter, the Plan Administrator and the Plan’s counsel

**National Academy of Sciences
Primary Retirement Plan**

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2024 and 2023

believe that the Plan is designed and currently being operated in compliance with the applicable requirements of the Code.

Accounting principles generally accepted in the United States of America require 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 Administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2024 and 2023, there are no uncertain positions taken or expected to be taken that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

NOTE I - RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Market values of investments may decline for a number of reasons, including changes in prevailing market and interest rates, increases in defaults and credit rating downgrades. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities 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.

NOTE J - SUBSEQUENT EVENTS

The Plan Administrator has performed an evaluation of subsequent events through October 3, 2025, which is the date that the financial statements were available to be issued, noting no events which affect the financial statements as of December 31, 2024.

SUPPLEMENTAL INFORMATION

**National Academy of Sciences
Primary Retirement Plan**

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

December 31, 2024

EMPLOYER ID NO: 53-0196932, PLAN #: 151062

(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	(e) Current Value
*	CREF	CREF Stock R2 Fund	\$ 48,629,507
*	CREF	CREF Money Market R2 Fund	7,046,661
*	CREF	CREF Social Choice R2 Fund	8,129,220
*	CREF	CREF Global Equities R2 Fund	4,809,563
*	CREF	CREF Growth R2 Fund	9,587,386
*	CREF	CREF Equity Index R2 Fund	6,858,546
*	CREF	CREF Inflation-Linked Bond R2 Fund	279,961
*	CREF	CREF Core Bond R2 Fund	1,376,793
	American Funds	American Funds EUPAC R6 Fund	11,623,665
	Hancock Funds	John Hancock Disciplined Value Mid Cap R6 Fund	5,090,168
	MFS Funds	MFS Mid Cap Growth R6 Fund	2,745,387
	NYLI Funds	NYLI Winslow Large Cap Growth Class R6 Fund	11,750,171
	Parnassus	Parnassus Core Equity Institutional	593,204
	Vanguard	Vanguard Explorer Fund Admiral	4,245,864
	Vanguard	Vanguard Federal Money Market Fund	4,272,432
	Vanguard	Vanguard Institutional Index Fund	28,963,480
	Vanguard	Vanguard Total Bond Market Index Fund Institutional	10,653,228
	Vanguard	Vanguard Total International Stock Index Fund Institutional	13,331,974
	Vanguard	Vanguard Wellington Fund Admiral	8,845,920
	Vanguard	Vanguard Windsor II Fund Admiral	19,074,079
	Vanguard	Vanguard Small-Cap Index Fund Institutional	5,777,501
	Vanguard	Vanguard Small-Cap Value Index Institutional	4,363,456
	Vanguard	Vanguard Mid-Cap Index Fund Institutional	3,101,913
	Vanguard	Vanguard Target Retirement 2020 Fund	3,723,812
	Vanguard	Vanguard Target Retirement 2025 Fund	7,156,945
	Vanguard	Vanguard Target Retirement 2030 Fund	9,520,882
	Vanguard	Vanguard Target Retirement 2035 Fund	11,642,307
	Vanguard	Vanguard Target Retirement 2040 Fund	10,022,991
	Vanguard	Vanguard Target Retirement 2045 Fund	12,700,241
	Vanguard	Vanguard Target Retirement 2050 Fund	9,417,703
	Vanguard	Vanguard Target Retirement 2055 Fund	5,712,707
	Vanguard	Vanguard Target Retirement 2060 Fund	1,985,183
	Vanguard	Vanguard Target Retirement 2065 Fund	762,380
	Vanguard	Vanguard Target Retirement Income Fund	2,282,080
	Vanguard	Vanguard FTSE Social Index Fund Admiral	254,246
	JPMorgan	JPMorgan Core Plus Bond R6 Fund	7,807,664
*	TIAA	TIAA Traditional Annuities	81,286,293
*	TIAA	TIAA Real Estate Fund	12,814,725
		Total	<u>\$ 398,240,238</u>

* Party-in-interest as defined by ERISA.
Column (d) cost has been omitted as all investments are participant-directed.

National Academy of Sciences
 Primary Retirement Plan

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

December 31, 2024

EMPLOYER ID NO: 53-0196932, PLAN #: 151062

(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	(e) Current Value
*	CREF	CREF Stock R2 Fund	\$ 48,629,507
*	CREF	CREF Money Market R2 Fund	7,046,661
*	CREF	CREF Social Choice R2 Fund	8,129,220
*	CREF	CREF Global Equities R2 Fund	4,809,563
*	CREF	CREF Growth R2 Fund	9,587,386
*	CREF	CREF Equity Index R2 Fund	6,858,546
*	CREF	CREF Inflation-Linked Bond R2 Fund	279,961
*	CREF	CREF Core Bond R2 Fund	1,376,793
	American Funds	American Funds EUPAC R6 Fund	11,623,665
	Hancock Funds	John Hancock Disciplined Value Mid Cap R6 Fund	5,090,168
	MFS Funds	MFS Mid Cap Growth R6 Fund	2,745,387
	NYLI Funds	NYLI Winslow Large Cap Growth Class R6 Fund	11,750,171
	Parnassus	Parnassus Core Equity Institutional	593,204
	Vanguard	Vanguard Explorer Fund Admiral	4,245,864
	Vanguard	Vanguard Federal Money Market Fund	4,272,432
	Vanguard	Vanguard Institutional Index Fund	28,963,480
	Vanguard	Vanguard Total Bond Market Index Fund Institutional	10,653,228
	Vanguard	Vanguard Total International Stock Index Fund Institutional	13,331,974
	Vanguard	Vanguard Wellington Fund Admiral	8,845,920
	Vanguard	Vanguard Windsor II Fund Admiral	19,074,079
	Vanguard	Vanguard Small-Cap Index Fund Institutional	5,777,501
	Vanguard	Vanguard Small-Cap Value Index Institutional	4,363,456
	Vanguard	Vanguard Mid-Cap Index Fund Institutional	3,101,913
	Vanguard	Vanguard Target Retirement 2020 Fund	3,723,812
	Vanguard	Vanguard Target Retirement 2025 Fund	7,156,945
	Vanguard	Vanguard Target Retirement 2030 Fund	9,520,882
	Vanguard	Vanguard Target Retirement 2035 Fund	11,642,307
	Vanguard	Vanguard Target Retirement 2040 Fund	10,022,991
	Vanguard	Vanguard Target Retirement 2045 Fund	12,700,241
	Vanguard	Vanguard Target Retirement 2050 Fund	9,417,703
	Vanguard	Vanguard Target Retirement 2055 Fund	5,712,707
	Vanguard	Vanguard Target Retirement 2060 Fund	1,985,183
	Vanguard	Vanguard Target Retirement 2065 Fund	762,380
	Vanguard	Vanguard Target Retirement Income Fund	2,282,080
	Vanguard	Vanguard FTSE Social Index Fund Admiral	254,246
	JPMorgan	JPMorgan Core Plus Bond R6 Fund	7,807,664
*	TIAA	TIAA Traditional Annuities	81,286,293
*	TIAA	TIAA Real Estate Fund	12,814,725
		Total	\$ 398,240,238

* Party-in-interest as defined by ERISA.
 Column (d) cost has been omitted as all investments are participant-directed.