

990

Return of Organization Exempt From Income Tax

OMB No. 1545-

0047 2022

Open to Public Inspection

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundation): Do not enter social security numbers on this form as it may be made public.

Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury Internal Revenue Service

A For the 2022 calendar year, or tax year beginning 01-01-2022, and ending 12-31-2022

Form 990 header section containing organization name (National Academy of Sciences), EIN (53-0196932), address (2101 Constitution Avenue NW), and principal officer (Marcia McNutt).

Part I Summary

Summary table with columns for Revenue, Expenses, and Net Assets or Fund Balances. Rows include mission statement, revenue breakdown, and expense breakdown.

Part II Signature Block

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete.

Signature block area with fields for officer signature (EBUN JOHNSON CFO) and date (2023-11-09).

Paid Preparer Use Only section with fields for preparer name (GRANT THORNTON LLP), address, and phone number.

May the IRS discuss this return with the preparer shown above? See Instructions. [X] Yes [] No

Part III Statement of Program Service Accomplishments

Check if Schedule O contains a response or note to any line in this Part III

1 Briefly describe the organization's mission:

THE NATIONAL ACADEMY OF SCIENCES WAS FORMED UNDER A CHARTER PASSED AS AN ACT OF INCORPORATION BY THE UNITED STATES CONGRESS AND SIGNED INTO LAW ON MARCH 3, 1863. NAS OPERATES AS A PRIVATE MEMBERSHIP ORGANIZATION OF DISTINGUISHED SCHOLARS ENGAGED IN SCIENTIFIC, ENGINEERING, OR MEDICAL RESEARCH. NAS IS DEDICATED TO THE FURTHERANCE OF SCIENCE FOR THE GENERAL WELFARE. NAS PROVIDES ADVICE AND OTHER SERVICES TO THE U.S. GOVERNMENT AND OTHER PRIVATE SPONSORS. NAS IS EXEMPT FROM FEDERAL INCOME TAXES UNDER SECTION 501(C)(3) OF THE INTERNAL REVENUE CODE, EXCEPT FOR UNRELATED BUSINESS INCOME.

2 Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ? Yes No

If "Yes," describe these new services on Schedule O.

3 Did the organization cease conducting, or make significant changes in how it conducts, any program services? Yes No

If "Yes," describe these changes on Schedule O.

4 Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

4a (Code:) (Expenses \$ **185,417,276** including grants of \$ **27,706,234**) (Revenue \$ **83**)
 PERFORMANCE IN CONNECTION WITH CONTRACTS AND GRANTS WITH THE U.S. GOVERNMENT IN ACCORDANCE WITH THE NATIONAL ACADEMY OF SCIENCES' CONGRESSIONAL CHARTER.

4b (Code:) (Expenses \$ **80,649,128** including grants of \$ **39,113,397**) (Revenue \$ **8,526,782**)
 STUDIES, PROJECTS AND OTHER SERVICES IN CONNECTION WITH PRIVATE GRANTS AND OTHER ARRANGEMENTS EXCLUSIVE OF WORK FUNDED BY THE U.S. GOVERNMENT.

4c (Code:) (Expenses \$ **5,490,752** including grants of \$ **1,382,365**) (Revenue \$ **347,553**)
 ENDOWMENT AND TRUST ACTIVITIES REPRESENTING SCIENTIFIC PRIZES, AWARDS, AND SUPPORT OF RESEARCH.

4d Other program services (Describe in Schedule O.)
 (Expenses \$ including grants of \$) (Revenue \$)

4e **Total program service expenses** **271,557,156**

Part IV Checklist of Required Schedules

| | | Yes | No |
|------------|---|-----|----|
| 1 | Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? If "Yes," complete Schedule A | Yes | |
| 2 | Is the organization required to complete Schedule B, Schedule of Contributors? See instructions. | Yes | |
| 3 | Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? If "Yes," complete Schedule C, Part I | | No |
| 4 | Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? If "Yes," complete Schedule C, Part II | | No |
| 5 | Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Rev. Proc. 98-19? If "Yes," complete Schedule C, Part III | | No |
| 6 | Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I | | No |
| 7 | Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II | | No |
| 8 | Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III | | No |
| 9 | Did the organization report an amount in Part X, line 21 for escrow or custodial account liability; serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? If "Yes," complete Schedule D, Part IV | | No |
| 10 | Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi endowments? If "Yes," complete Schedule D, Part V | Yes | |
| 11 | If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X, as applicable. | | |
| 11a | Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI | Yes | |
| 11b | Did the organization report an amount for investments—other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII | Yes | |
| 11c | Did the organization report an amount for investments—program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII | | No |
| 11d | Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? If "Yes," complete Schedule D, Part IX | | No |
| 11e | Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X | Yes | |
| 11f | Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? | Yes | |
| 12a | Did the organization obtain a separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII | Yes | |
| 12b | Was the organization included in consolidated, independent audited financial statements for the tax year? If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional | | No |
| 13 | Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E | | No |
| 14a | Did the organization maintain an office, employees, or agents outside of the United States? | Yes | |
| 14b | Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000 or more? If "Yes," complete Schedule F, Parts I and IV | Yes | |
| 15 | Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? If "Yes," complete Schedule F, Parts II and IV | Yes | |
| 16 | Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV | Yes | |
| 17 | Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I. See instructions. | | No |
| 18 | Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? If "Yes," complete Schedule G, Part II | | No |
| 19 | Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? If "Yes," complete Schedule G, Part III | | No |
| 20a | Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H | | No |
| 20b | If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return? | | |
| 21 | Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II | Yes | |

Part IV Checklist of Required Schedules (continued)

| | | Yes | No | |
|-----|--|-----|-----|----|
| 22 | Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i> | 22 | Yes | |
| 23 | Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5, about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i> | 23 | Yes | |
| 24a | Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i> | 24a | Yes | |
| b | Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception? | 24b | | No |
| c | Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds? | 24c | | No |
| d | Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year? | 24d | | No |
| 25a | Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i> | 25a | | No |
| b | Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i> | 25b | | No |
| 26 | Did the organization report any amount on Part X, line 5 or 22 for receivables from or payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons? | 26 | | No |
| 27 | Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or employee thereof, a grant selection committee member, or to a 35% controlled entity (including an employee thereof) or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i> | 27 | | No |
| 28 | Was the organization a party to a business transaction with one of the following parties (see the Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions): | | | |
| a | A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? <i>If "Yes," complete Schedule L, Part IV</i> | 28a | | No |
| b | A family member of any individual described in line 28a? <i>If "Yes," complete Schedule L, Part IV</i> | 28b | | No |
| c | A 35% controlled entity of one or more individuals and/or organizations described in line 28a or 28b? <i>If "Yes," complete Schedule L, Part IV</i> | 28c | | No |
| 29 | Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i> | 29 | Yes | |
| 30 | Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? | 30 | | No |
| 31 | Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i> | 31 | | No |
| 32 | Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i> | 32 | | No |
| 33 | Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? | 33 | Yes | |
| 34 | Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i> | 34 | Yes | |
| 35a | Did the organization have a controlled entity within the meaning of section 512(b)(13)? | 35a | Yes | |
| b | If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i> | 35b | Yes | |
| 36 | Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i> | 36 | | No |
| 37 | Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i> | 37 | | No |
| 38 | Did the organization complete Schedule O and provide explanations on Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O. | 38 | Yes | |

Part V Statements Regarding Other IRS Filings and Tax Compliance

Check if Schedule O contains a response or note to any line in this Part V

| | | Yes | No | |
|----|--|-----|-----|--|
| 1a | Enter the number reported in box 3 of Form 1096. Enter -0- if not applicable | 1a | 595 | |
| b | Enter the number of Forms W-2G included on line 1a. Enter -0- if not applicable | 1b | 0 | |
| c | Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners? | 1c | Yes | |

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

Table with 17 main rows (2a-17) and sub-rows (a-e) for various sections. Includes questions about employee reporting, federal employment tax returns, unrelated business gross income, foreign accounts, prohibited tax shelter transactions, deductible contributions, and charitable trusts. Includes a grid for numerical answers and Yes/No columns.

Part VI Governance, Management, and Disclosure. For each "Yes" response to lines 2 through 7b below, and for a "No" response to lines 8a, 8b, or 10b below, describe the circumstances, processes, or changes in Schedule O. See instructions. Check if Schedule O contains a response or note to any line in this Part VI

Section A. Governing Body and Management

Table with 3 columns: Question, Yes, No. Rows include: 1a Enter the number of voting members of the governing body at the end of the tax year... 1b Enter the number of voting members included in line 1a... 2 Did any officer, director, trustee, or key employee have a family relationship... 3 Did the organization delegate control over management duties... 4 Did the organization make any significant changes to its governing documents... 5 Did the organization become aware during the year of a significant diversion of assets... 6 Did the organization have members or stockholders... 7a Did the organization have members, stockholders, or other persons who had the power to elect... 7b Are any governance decisions reserved to members, stockholders, or persons other than the governing body... 8 Did the organization contemporaneously document the meetings held or written actions... 8a The governing body? 8b Each committee with authority to act on behalf of the governing body? 9 Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address?

Section B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)

Table with 3 columns: Question, Yes, No. Rows include: 10a Did the organization have local chapters, branches, or affiliates? 10b If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes? 11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form? 11b Describe on Schedule O the process, if any, used by the organization to review this Form 990. 12a Did the organization have a written conflict of interest policy? If "No," go to line 13 12b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts? 12c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe on Schedule O how this was done 13 Did the organization have a written whistleblower policy? 14 Did the organization have a written document retention and destruction policy? 15 Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision? 15a The organization's CEO, Executive Director, or top management official 15b Other officers or key employees of the organization If "Yes" to line 15a or 15b, describe the process on Schedule O. See instructions. 16a Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year? 16b If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?

Section C. Disclosure

Table with 2 columns: Question, Answer. Row 17: List the states with which a copy of this Form 990 is required to be filed. Answer: AL, AR, CO, FL, GA, HI, KY, MD, MA, MI, MN, NH, NJ, NM, NY, ND, OH, OK, PA, RI, TN, UT, VA, WA, WV, WI. Row 18: Section 6104 requires an organization to make its Form 1023 (1024 or 1024-A, if applicable), 990, and 990-T (section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply. [] Own website [] Another's website [x] Upon request [] Other (explain in Schedule O). Row 19: Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year. Row 20: State the name, address, and telephone number of the person who possesses the organization's books and records: LAURA DOUGLAS NAS 500 FIFTH STREET NW WASHINGTON, DC 20001 (202) 334-3003

Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors

Check if Schedule O contains a response or note to any line in this Part VII

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.

- List all of the organization's **current** key employees, if any. See the instructions for definition of "key employee."

- List the organization's five **current** highest compensated employees (other than an officer, director, trustee or key employee) who received reportable compensation (box 5 of Form W-2, box 6 of Form 1099-MISC, and/or box 1 of Form 1099-NEC) of more than \$100,000 from the organization and any related organizations.

- List all of the organization's **former** officers, key employees, or highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.

- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

See the instructions for the order in which to list the persons above.

Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

| (A) Name and title | (B) Average hours per week (list any hours for related organizations below dotted line) | (C) Position (do not check more than one box, unless person is both an officer and a director/trustee) | | | | | | (D) Reportable compensation from the organization (W-2/1099-MISC/1099-NEC) | (E) Reportable compensation from related organizations (W-2/1099-MISC/1099-NEC) | (F) Estimated amount of other compensation from the organization and related organizations |
|---|--|---|------------------------|---------|--------------|------------------------------|-----------|---|--|---|
| | | Individual trustee or director | Institutional Trustee; | Officer | Key employee | Highest compensated employee | Former | | | |
| (1) MARCIA MCNUTT PRESIDENT | 37.50 2.00 | X | | X | | | 1,011,756 | 0 | 85,124 | |
| (2) DIANE E GRIFFIN VICE PRESIDENT | 19.00 0.00 | X | | X | | | 0 | 0 | 0 | |
| (3) SUSAN R WESSLER HOME SECRETARY | 19.00 0.00 | X | | X | | | 0 | 0 | 0 | |
| (4) JOHN G HILDEBRAND INTERNATIONAL SECRETARY | 19.00 0.00 | X | | X | | | 0 | 0 | 0 | |
| (5) WILLIAM H PRESS TREASURER | 19.00 1.00 | X | | X | | | 0 | 0 | 0 | |
| (6) HUDA AKIL NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (7) NANCY C ANDREWS NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (8) JOHN C BOOTHROYD NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (9) RUTH S DEFRIES NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (10) JOSEPH S FRANCISCO NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (11) ANGELA M GRONENBORN NAS COUNCIL MEMBER (BEG 7/1/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (12) PATRICIA KUHL NAS COUNCIL MEMBER (END 6/30/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (13) RICHARD E LENSKI NAS COUNCIL MEMBER (END 6/30/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (14) ANDREA J LIU NAS COUNCIL MEMBER (BEG 7/1/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (15) DAVID J MELTZER NAS COUNCIL MEMBER (BEG 7/1/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (16) KENNETH A RIBET NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |
| (17) GENE E ROBINSON NAS COUNCIL MEMBER (BEG 7/1/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 | |

Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued)

| (A) Name and title | (B) Average hours per week (list any hours for related organizations below dotted line) | (C) Position (do not check more than one box, unless person is both an officer and a director/trustee) | | | | | (D) Reportable compensation from the organization (W-2/1099-MISC/1099-NEC) | (E) Reportable compensation from related organizations (W-2/1099-MISC/1099-NEC) | (F) Estimated amount of other compensation from the organization and related organizations |
|--|--|---|------------------------|---------|--------------|------------------------------|---|--|---|
| | | Individual trustee or director | Institutional Trustee; | Officer | Key employee | Highest compensated employee | | | |
| (18) GERTRUD M SCHUPBACH NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 |
| (19) SEAN C SOLOMON NAS COUNCIL MEMBER (END 6/30/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 |
| (20) RUTH J WILLIAMS NAS COUNCIL MEMBER (END 6/30/22) | 4.00 0.00 | X | | | | | 0 | 0 | 0 |
| (21) HAO WU NAS COUNCIL MEMBER | 4.00 0.00 | X | | | | | 0 | 0 | 0 |
| (22) JOHN ANDERSON PRESIDENT - NAE | 37.50 2.00 | | | X | | | 996,608 | 0 | 85,969 |
| (23) VICTOR DZAU PRESIDENT - NAM | 37.50 1.00 | | | X | | | 996,421 | 0 | 86,135 |
| (24) GREGORY SYMMES CHIEF PROGRAM OFFICER | 37.50 0.00 | | | X | | | 412,640 | 0 | 81,253 |
| (25) LORY WINGATE CHIEF OPERATING OFFICER | 37.50 0.00 | | | X | | | 403,603 | 0 | 87,861 |
| (26) MARY SALMON CHIEF FINANCIAL OFFICER | 37.50 1.00 | | | X | | | 342,399 | 0 | 49,320 |
| (27) NEIL PEDERSEN EXECUTIVE DIRECTOR, TRB | 37.50 0.00 | | | | X | | 300,674 | 0 | 56,349 |
| (28) VAUGHAN TUREKIAN EXECUTIVE DIRECTOR, PGA | 37.50 0.00 | | | | X | | 277,106 | 0 | 77,586 |
| (29) LAUREN ALEXANDER AUGUSTINE EXECUTIVE DIRECTOR, GULF | 37.50 0.00 | | | | X | | 266,277 | 0 | 77,646 |
| (30) MONICA FEIT EXECUTIVE DIRECTOR, HMD | 37.50 0.00 | | | | X | | 272,507 | 0 | 78,092 |
| (31) ALTON ROMIG NAE EXECUTIVE OFFICER | 37.50 1.00 | | | | | X | 334,345 | 0 | 86,625 |
| (32) LEONARD KIM CHIEF INFORMATION OFFICER | 37.50 0.00 | | | | | X | 331,782 | 0 | 87,065 |
| (33) ALINA BRENNER RERF SENIOR RESEARCHER | 37.50 0.00 | | | | | X | 348,986 | 0 | 68,785 |
| (34) KENNETH FULTON NAS EXECUTIVE DIRECTOR | 37.50 1.00 | | | | | X | 336,298 | 0 | 73,423 |
| (35) AUDREY MOSLEY GENERAL COUNSEL | 37.50 0.00 | | | | | X | 339,931 | 0 | 66,835 |
| 1b Sub-Total | | | | | | | | | |
| c Total from continuation sheets to Part VII, Section A | | | | | | | | | |
| d Total (add lines 1b and 1c) | | | | | | 6,971,333 | 0 | 1,148,068 | |

2 Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization ▶ 421

| | Yes | No |
|--|-----|----|
| 3 Did the organization list any former officer, director or trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i> | | No |
| 4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i> | Yes | |
| 5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i> | | No |

Section B. Independent Contractors

1 Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

| (A) Name and business address | (B) Description of services | (C) Compensation |
|--|--------------------------------|---------------------|
| TEXAS A&M TRANSPORTATION INSTITUTE 3135 TAMU COLLEGE STATION, TX 77843 | TRANSPORTATION STUDY | 3,027,412 |
| KNOWLEDGEWORKS GLOBAL LTD 3323 OAK STREET BRAINERD, MN 56401 | PRINTING/FULFILLMENT | 2,256,406 |
| PRICE WATERHOUSE COOPERS PO BOX 7247-8001 PHILADELPHIA, PA 19170 | CONSULTING | 1,895,775 |
| COMPLETE BUILDING SERVICES 5100 WISCONSIN AVENUE NW WASHINGTON, DC 20016 | FACILITIES MGMT | 1,576,158 |
| CAMBRIDGE SYSTEMATICS 100 CAMBRIDGE PARK DRIVE STE 400 CAMBRIDGE, MA 02140 | TRANSPORTATION STUDY | 1,466,781 |

2 Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization ▶ 149

Part VIII Statement of Revenue

Check if Schedule O contains a response or note to any line in this Part VIII

| | (A) Total revenue | (B) Related or exempt function revenue | (C) Unrelated business revenue | (D) Revenue excluded from tax under sections 512 - 514 |
|---|----------------------|--|---|--|
| Contributions, Gifts, Grants, and Other Similar Amounts | | | | |
| 1a Federated campaigns | | 1a | | |
| b Membership dues | | 1b | 2,089,377 | |
| c Fundraising events | | 1c | | |
| d Related organizations | | 1d | 4,864,400 | |
| e Government grants (contributions) | | 1e | 195,391,766 | |
| f All other contributions, gifts, grants, and similar amounts not included above | | 1f | 79,036,995 | |
| g Noncash contributions included in lines 1a - 1f:\$ | | 1g | 1,098,043 | |
| h Total. Add lines 1a-1f | | | | 281,382,538 |

| Program Service Revenue | Business Code | | | |
|---|---------------|-----------|-----------|-----|
| | | (A) | (B) | (C) |
| 2a ANNUAL MTG./REG. FEES | 900099 | 6,707,461 | 6,707,461 | |
| b | | | | |
| c | | | | |
| d | | | | |
| e | | | | |
| f All other program service revenue. | | | | |
| g Total. Add lines 2a-2f. | | 6,707,461 | | |

| | | | | | |
|--|----------------|-------------|-----------|---------|-------------|
| 3 Investment income (including dividends, interest, and other similar amounts) | | 10,455,630 | | 180,294 | 10,275,336 |
| 4 Income from investment of tax-exempt bond proceeds | | | | | |
| 5 Royalties | | 1,327,180 | | | 1,327,180 |
| 6a Gross rents | (i) Real | 474,142 | | | |
| b Less: rental expenses | (ii) Personal | 474,142 | | | |
| c Rental income or (loss) | | 0 | | | |
| d Net rental income or (loss) | | | | | |
| 7a Gross amount from sales of assets other than inventory | (i) Securities | 268,356,321 | | | |
| b Less: cost or other basis and sales expenses | (ii) Other | 290,792,462 | | | |
| c Gain or (loss) | | -22,436,141 | | | |
| d Net gain or (loss) | | -22,436,141 | | | -22,436,141 |
| 8a Gross income from fundraising events (not including \$ of contributions reported on line 1c). See Part IV, line 18 | | | | | |
| b Less: direct expenses | | | | | |
| c Net income or (loss) from fundraising events | | | | | |
| 9a Gross income from gaming activities. See Part IV, line 19 | | | | | |
| b Less: direct expenses | | | | | |
| c Net income or (loss) from gaming activities | | | | | |
| 10a Gross sales of inventory, less returns and allowances | | 17,519,727 | | | |
| b Less: cost of goods sold | | 15,352,770 | | | |
| c Net income or (loss) from sales of inventory | | 2,166,957 | 2,166,957 | | |

| Other Revenue Misc Amt | Business Code | | | |
|---|---------------|-------------|-----------|-------------|
| | | (A) | (B) | (C) |
| 11a FOOD SERVICE REVENUE | 722320 | 151,879 | | 151,879 |
| b PARKING REIMBURSEMENT | 812930 | 93,836 | | 93,836 |
| c ADVERTISING | 900099 | 62,660 | 62,660 | |
| d All other revenue | | 13,416 | 6,852 | 6,564 |
| e Total. Add lines 11a-11d | | 321,791 | | |
| 12 Total revenue. See instructions | | 279,925,416 | 8,874,418 | 249,806 |
| | | | | -10,581,346 |

Part IX Statement of Functional Expenses

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

| Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII. | (A) Total expenses | (B) Program service expenses | (C) Management and general expenses | (D) Fundraising expenses |
|---|------------------------------|--|---|------------------------------------|
| 1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21 | 31,073,146 | 31,073,146 | | |
| 2 Grants and other assistance to domestic individuals. See Part IV, line 22 | 34,089,585 | 34,089,585 | | |
| 3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16. | 3,039,265 | 3,039,265 | | |
| 4 Benefits paid to or for members | | | | |
| 5 Compensation of current officers, directors, trustees, and key employees | 5,732,647 | | 5,732,647 | |
| 6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B) | | | | |
| 7 Other salaries and wages | 108,721,874 | 83,517,528 | 23,164,486 | 2,039,860 |
| 8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions) | 13,480,274 | 8,843,086 | 4,414,176 | 223,012 |
| 9 Other employee benefits | 15,577,160 | 12,464,145 | 2,834,413 | 278,602 |
| 10 Payroll taxes | 8,742,906 | 5,686,291 | 2,913,214 | 143,401 |
| 11 Fees for services (non-employees): | | | | |
| a Management | | | | |
| b Legal | 376,154 | 49,808 | 325,090 | 1,256 |
| c Accounting | 792,666 | 37,217 | 754,638 | 811 |
| d Lobbying | | | | |
| e Professional fundraising services. See Part IV, line 17 | 13,750 | | | 13,750 |
| f Investment management fees | 3,447,539 | | 3,447,539 | |
| g Other (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O) | 18,712,303 | 11,407,199 | 7,190,256 | 114,848 |
| 12 Advertising and promotion | 380,249 | 340,842 | 22,083 | 17,324 |
| 13 Office expenses | 2,285,929 | 1,464,702 | 782,456 | 38,771 |
| 14 Information technology | 3,674,850 | 3,175,779 | 434,724 | 64,347 |
| 15 Royalties | | | | |
| 16 Occupancy | 6,187,798 | 4,685,503 | 1,456,933 | 45,362 |
| 17 Travel | 8,992,112 | 7,885,148 | 982,284 | 124,680 |
| 18 Payments of travel or entertainment expenses for any federal, state, or local public officials | 18,549 | 18,549 | | |
| 19 Conferences, conventions, and meetings | 5,539,311 | 3,055,489 | 2,374,818 | 109,004 |
| 20 Interest | 4,069,270 | | 4,069,270 | |
| 21 Payments to affiliates | | | | |
| 22 Depreciation, depletion, and amortization | 9,570,074 | 6,440,243 | 3,053,712 | 76,119 |
| 23 Insurance | 1,038,356 | 530,048 | 508,308 | |
| 24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.) | | | | |
| a SUBCONTRACTS | 49,821,649 | 49,714,947 | 106,702 | |
| b PRINTING & PUBLICATIONS | 4,724,788 | 4,011,740 | 607,540 | 105,508 |
| c MISCELLANEOUS | 2,620,730 | 26,896 | 2,590,958 | 2,876 |
| d UNRELATED BUS. INC. TAX | 6,179 | | 6,179 | |
| e All other expenses | | | | |
| 25 Total functional expenses. Add lines 1 through 24e | 342,729,113 | 271,557,156 | 67,772,426 | 3,399,531 |
| 26 Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720). | | | | |

Part X Balance Sheet

Check if Schedule O contains a response or note to any line in this Part IX

| | | (A) Beginning of year | | (B) End of year |
|---|--|--------------------------|---------------|------------------------|
| Assets | 1 Cash-non-interest-bearing | 88,762,442 | 1 | 42,792,585 |
| | 2 Savings and temporary cash investments | 6,147,584 | 2 | 8,089,739 |
| | 3 Pledges and grants receivable, net | 21,551,989 | 3 | 22,623,982 |
| | 4 Accounts receivable, net | 57,097,869 | 4 | 57,704,009 |
| | 5 Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons | | 5 | |
| | 6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), and persons described in section 4958(c)(3)(B) | | 6 | |
| | 7 Notes and loans receivable, net | | 7 | |
| | 8 Inventories for sale or use | 490,891 | 8 | 455,918 |
| | 9 Prepaid expenses and deferred charges | 9,017,956 | 9 | 12,369,651 |
| | 10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D | 10a 249,783,912 | | |
| | b Less: accumulated depreciation | 10b 118,467,013 | 135,856,868 | 10c 131,316,899 |
| | 11 Investments—publicly traded securities | 803,169,717 | 11 | 651,514,205 |
| | 12 Investments—other securities. See Part IV, line 11 | 569,320,147 | 12 | 538,515,293 |
| | 13 Investments—program-related. See Part IV, line 11 | 0 | 13 | 0 |
| | 14 Intangible assets | | 14 | |
| | 15 Other assets. See Part IV, line 11 | 25,081,152 | 15 | 28,147,188 |
| 16 Total assets: Add lines 1 through 15 (must equal line 33) | 1,716,496,615 | 16 | 1,493,529,469 | |
| Liabilities | 17 Accounts payable and accrued expenses | 35,323,615 | 17 | 30,433,129 |
| | 18 Grants payable | | 18 | |
| | 19 Deferred revenue | 73,958,305 | 19 | 78,533,988 |
| | 20 Tax-exempt bond liabilities | 144,473,379 | 20 | 139,677,589 |
| | 21 Escrow or custodial account liability. Complete Part IV of Schedule D | | 21 | |
| | 22 Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons | | 22 | |
| | 23 Secured mortgages and notes payable to unrelated third parties | | 23 | |
| | 24 Unsecured notes and loans payable to unrelated third parties | | 24 | |
| | 25 Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17 - 24). Complete Part X of Schedule D | 29,422,291 | 25 | 25,595,286 |
| | 26 Total liabilities. Add lines 17 through 25 | 283,177,590 | 26 | 274,239,992 |
| Net Assets or Fund Balances | Organizations that follow FASB ASC 958, check here <input checked="" type="checkbox"/> and complete lines 27, 28, 32, and 33. | | | |
| | 27 Net assets without donor restrictions | 167,625,710 | 27 | 148,371,939 |
| | 28 Net assets with donor restrictions | 1,265,693,315 | 28 | 1,070,917,538 |
| | Organizations that do not follow FASB ASC 958, check here <input type="checkbox"/> and complete lines 29 through 33. | | | |
| | 29 Capital stock or trust principal, or current funds | | 29 | |
| | 30 Paid-in or capital surplus, or land, building or equipment fund | | 30 | |
| | 31 Retained earnings, endowment, accumulated income, or other funds | | 31 | |
| | 32 Total net assets or fund balances | 1,433,319,025 | 32 | 1,219,289,477 |
| 33 Total liabilities and net assets/fund balances | 1,716,496,615 | 33 | 1,493,529,469 | |

Part XI Reconciliation of Net Assets

Check if Schedule O contains a response or note to any line in this Part XI

| | | | |
|-----------|--|-----------|---------------|
| 1 | Total revenue (must equal Part VIII, column (A), line 12) | 1 | 279,925,416 |
| 2 | Total expenses (must equal Part IX, column (A), line 25) | 2 | 342,729,113 |
| 3 | Revenue less expenses. Subtract line 2 from line 1 | 3 | -62,803,697 |
| 4 | Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A)) | 4 | 1,433,319,025 |
| 5 | Net unrealized gains (losses) on investments | 5 | -157,223,083 |
| 6 | Donated services and use of facilities | 6 | |
| 7 | Investment expenses | 7 | |
| 8 | Prior period adjustments | 8 | |
| 9 | Other changes in net assets or fund balances (explain in Schedule O) | 9 | 5,997,232 |
| 10 | Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32, column (A)) | 10 | 1,219,289,477 |

Part XII Financial Statements and Reporting

Check if Schedule O contains a response or note to any line in this Part XII

| | | Yes | No |
|-----------|---|-----|----|
| 1 | Accounting method used to prepare the Form 990: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other _____ If the organization changed its method of accounting from a prior year or checked "Other," explain on Schedule O. | | |
| 2a | Were the organization's financial statements compiled or reviewed by an independent accountant? If 'Yes,' check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both: <input type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis | | No |
| b | Were the organization's financial statements audited by an independent accountant? If 'Yes,' check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both: <input checked="" type="checkbox"/> Separate basis <input type="checkbox"/> Consolidated basis <input type="checkbox"/> Both consolidated and separate basis | Yes | |
| c | If "Yes," to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? If the organization changed either its oversight process or selection process during the tax year, explain in Schedule O. | Yes | |
| 3a | As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Uniform Guidance, 2 C.F.R. Part 200, Subpart F? | Yes | |
| b | If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why in Schedule O and describe any steps taken to undergo such audits. | Yes | |

Additional Data

Return to Form

Software ID:

Software Version:

Form 990, Special Condition Description:

Special Condition Description

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.
 Attach to Form 990 or Form 990-EZ.
 Go to www.irs.gov/Form990 for instructions and the latest information.

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number
53-0196932

Part I Reason for Public Charity Status (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1 A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i)**.
- 2 A school described in **section 170(b)(1)(A)(ii)**. (Attach Schedule E (Form 990).)
- 3 A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4 A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii)**. Enter the hospital's name, city, and state:

- 5 An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv)**. (Complete Part II.)
- 6 A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7 An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 8 A community trust described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 9 An agricultural research organization described in **170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land grant college of agriculture. See instructions. Enter the name, city, and state of the college or university:
- 10 An organization that normally receives: (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions—subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See **section 509(a)(2)**. (Complete Part III.)
- 11 An organization organized and operated exclusively to test for public safety. See **section 509(a)(4)**.
- 12 An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2)**. See **section 509(a)(3)**. Check the box on lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g.
 - a **Type I.** A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. **You must complete Part IV, Sections A and B.**
 - b **Type II.** A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). **You must complete Part IV, Sections A and C.**
 - c **Type III functionally integrated.** A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). **You must complete Part IV, Sections A, D, and E.**
 - d **Type III non-functionally integrated.** A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). **You must complete Part IV, Sections A and D, and Part V.**
 - e Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.
 - f Enter the number of supported organizations _____
 - g Provide the following information about the supported organization(s).

| (i) Name of supported organization | (ii) EIN | (iii) Type of organization (described on lines 1- 10 above (see instructions)) | (iv) Is the organization listed in your governing document? | | (v) Amount of monetary support (see instructions) | (vi) Amount of other support (see instructions) |
|------------------------------------|----------|--|---|----|---|---|
| | | | Yes | No | | |
| | | | | | | |
| | | | | | | |
| Total | | | | | | |

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)
 (Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization failed to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

| Calendar year (or fiscal year beginning in) ▶ | (a) 2018 | (b) 2019 | (c) 2020 | (d) 2021 | (e) 2022 | (f) Total |
|--|-------------|-------------|-------------|-------------|-------------|---------------|
| 1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grant.") . . . | 268,443,497 | 278,346,510 | 258,178,179 | 258,287,760 | 281,382,538 | 1,344,638,484 |
| 2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf | | | | | | |
| 3 The value of services or facilities furnished by a governmental unit to the organization without charge. | | | | | | |
| 4 Total. Add lines 1 through 3 | 268,443,497 | 278,346,510 | 258,178,179 | 258,287,760 | 281,382,538 | 1,344,638,484 |
| 5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f) | | | | | | 24,520,305 |
| 6 Public support. Subtract line 5 from line 4. | | | | | | 1,320,118,179 |

Section B. Total Support

| Calendar year (or fiscal year beginning in) ▶ | (a) 2018 | (b) 2019 | (c) 2020 | (d) 2021 | (e) 2022 | (f) Total |
|---|-------------|-------------|-------------|-------------|-------------|--------------------------|
| 7 Amounts from line 4. | 268,443,497 | 278,346,510 | 258,178,179 | 258,287,760 | 281,382,538 | 1,344,638,484 |
| 8 Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources | 22,979,453 | 17,552,241 | 12,228,655 | 11,843,966 | 12,076,658 | 76,680,973 |
| 9 Net income from unrelated business activities, whether or not the business is regularly carried on. | 0 | 0 | 23,919 | 9,849 | 42,608 | 76,376 |
| 10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.). | 1,799,953 | 1,952,015 | 431,943 | 39,840 | 252,279 | 4,476,030 |
| 11 Total support. Add lines 7 through 10 | | | | | | 1,425,871,863 |
| 12 Gross receipts from related activities, etc. (see instructions) | | | | | 12 | 122,172,024 |
| 13 First 5 years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here | | | | | | <input type="checkbox"/> |

Section C. Computation of Public Support Percentage

| | | |
|--|-----------|-------------------------------------|
| 14 Public support percentage for 2022 (line 6, column (f) divided by line 11, column (f)) | 14 | 92.580 % |
| 15 Public support percentage for 2020 Schedule A, Part II, line 14 | 15 | 92.340 % |
| 16a 33 1/3% support test—2022. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization | | <input checked="" type="checkbox"/> |
| b 33 1/3% support test—2021. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization | | <input type="checkbox"/> |
| 17a 10%-facts-and-circumstances test—2022. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization | | <input type="checkbox"/> |
| b 10%-facts-and-circumstances test—2021. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization | | <input type="checkbox"/> |
| 18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions | | <input type="checkbox"/> |

Part III Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

Section A. Public Support

Table with 7 columns: (a) 2018, (b) 2019, (c) 2020, (d) 2021, (e) 2022, (f) Total. Rows include: 1 Gifts, grants, contributions, and membership fees received; 2 Gross receipts from admissions, merchandise sold or services performed; 3 Gross receipts from activities that are not an unrelated trade or business; 4 Tax revenues levied for the organization's benefit; 5 The value of services or facilities furnished by a governmental unit; 6 Total; 7a Amounts included on lines 1, 2, and 3 received from disqualified persons; 7b Amounts included on lines 2 and 3 received from other than disqualified persons; 8 Public support.

Section B. Total Support

Table with 7 columns: (a) 2018, (b) 2019, (c) 2020, (d) 2021, (e) 2022, (f) Total. Rows include: 9 Amounts from line 6; 10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources; 10b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975; 10c Add lines 10a and 10b; 11 Net income from unrelated business activities not included on line 10b; 12 Other income; 13 Total support; 14 First 5 years.

Section C. Computation of Public Support Percentage

Table with 2 columns: Description, Percentage. Row 15: Public support percentage for 2022; Row 16: Public support percentage from 2021 Schedule A, Part III, line 15.

Section D. Computation of Investment Income Percentage

Table with 2 columns: Description, Percentage. Row 17: Investment income percentage for 2022; Row 18: Investment income percentage from 2021 Schedule A, Part III, line 17.

- 19a 33 1/3% support tests-2022. If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and stop here.
b 33 1/3% support tests-2021. If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3% and line 18 is not more than 33 1/3%, check this box and stop here.
20 Private foundation. If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions.

Part IV Supporting Organizations

(Complete only if you checked a box on line 12 of Part I. If you checked box 12a, of Part I, complete Sections A and B. If you checked box 12b, of Part I, complete Sections A and C. If you checked box 12c, of Part I, complete Sections A, D, and E. If you checked box 12d, of Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

| | | Yes | No |
|------------|---|-----|----|
| 1 | Are all of the organization's supported organizations listed by name in the organization's governing documents? If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain. | | |
| 2 | Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2). | | |
| 3a | Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes," answer lines 3b and 3c below. | | |
| b | Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? If "Yes," describe in Part VI when and how the organization made the determination. | | |
| c | Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in Part VI what controls the organization put in place to ensure such use. | | |
| 4a | Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes" and if you checked box 12a or 12b in Part I, answer lines 4b and 4c below. | | |
| b | Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations. | | |
| c | Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes. | | |
| 5a | Did the organization add, substitute, or remove any supported organizations during the tax year? If "Yes," answer lines 5b and 5c below (if applicable). Also, provide detail in Part VI , including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document). | | |
| b | Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document? | | |
| c | Substitutions only. Was the substitution the result of an event beyond the organization's control? | | |
| 6 | Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? If "Yes," provide detail in Part VI . | | |
| 7 | Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? If "Yes," complete Part I of Schedule L (Form 990). | | |
| 8 | Did the organization make a loan to a disqualified person (as defined in section 4958) not described on line 7? If "Yes," complete Part I of Schedule L (Form 990). | | |
| 9a | Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons, as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? If "Yes," provide detail in Part VI . | | |
| b | Did one or more disqualified persons (as defined on line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? If "Yes," provide detail in Part VI . | | |
| c | Did a disqualified person (as defined on line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? If "Yes," provide detail in Part VI . | | |
| 10a | Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? If "Yes," answer line 10b below. | | |
| b | Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether the organization had excess business holdings). | | |

Part IV Supporting Organizations (continued)

| | Yes | No |
|--|-----|----|
| 11 Has the organization accepted a gift or contribution from any of the following persons? | | |
| a A person who directly or indirectly controls, either alone or together with persons described on lines 11b and 11c below, the governing body of a supported organization? | | |
| b A family member of a person described on 11a above? | | |
| c A 35% controlled entity of a person described on line 11a or 11b above? <i>If "Yes" to 11a, 11b, or 11c, provide detail in Part VI</i> | | |

Section B. Type I Supporting Organizations

| | Yes | No |
|---|-----|----|
| 1 Did the officers, directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? <i>If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.</i> | | |
| 2 Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? <i>If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised or controlled the supporting organization.</i> | | |

Section C. Type II Supporting Organizations

| | Yes | No |
|--|-----|----|
| 1 Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? <i>If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).</i> | | |

Section D. All Type III Supporting Organizations

| | Yes | No |
|---|-----|----|
| 1 Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided? | | |
| 2 Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? <i>If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).</i> | | |
| 3 By reason of the relationship described in line 2 above, did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? <i>If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.</i> | | |

Section E. Type III Functionally-Integrated Supporting Organizations

1 Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (**see instructions**):

- a** The organization satisfied the Activities Test. Complete **line 2** below.
- b** The organization is the parent of each of its supported organizations. Complete **line 3** below.
- c** The organization supported a governmental entity. Describe in **Part VI** how you supported a government entity (see instructions)

2 Activities Test. **Answer lines 2a and 2b below.**

| | Yes | No |
|---|-----|----|
| a Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? <i>If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.</i> | | |
| b Did the activities described on line 2a, above constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? <i>If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.</i> | | |

3 Parent of Supported Organizations. **Answer lines 3a and 3b below.**

| | Yes | No |
|---|-----|----|
| a Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? <i>If "Yes" or "No", provide details in Part VI.</i> | | |
| b Did the organization exercise a substantial degree of direction over the policies, programs and activities of each of its supported organizations? <i>If "Yes," describe in Part VI. the role played by the organization in this regard.</i> | | |

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

- 1** Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (*explain in Part VI*). See instructions. All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

Section A - Adjusted Net Income

(A) Prior Year

(B) Current Year
(optional)

- | | | | |
|---|----------|--|--|
| 1 Net short-term capital gain | 1 | | |
| 2 Recoveries of prior-year distributions | 2 | | |
| 3 Other gross income (see instructions) | 3 | | |
| 4 Add lines 1 through 3 | 4 | | |
| 5 Depreciation and depletion | 5 | | |
| 6 Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions) | 6 | | |
| 7 Other expenses (see instructions) | 7 | | |
| 8 Adjusted Net Income (subtract lines 5, 6 and 7 from line 4) | 8 | | |

Section B - Minimum Asset Amount

(A) Prior Year

(B) Current Year
(optional)

- | | | | |
|--|-----------|--|--|
| 1 Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year): | 1 | | |
| a Average monthly value of securities | 1a | | |
| b Average monthly cash balances | 1b | | |
| c Fair market value of other non-exempt-use assets | 1c | | |
| d Total (add lines 1a, 1b, and 1c) | 1d | | |
| e Discount claimed for blockage or other factors (<i>explain in detail in Part VI</i>): | | | |
| 2 Acquisition indebtedness applicable to non-exempt use assets | 2 | | |
| 3 Subtract line 2 from line 1d | 3 | | |
| 4 Cash deemed held for exempt use. Enter 0.015 of line 3 (for greater amount, see instructions). | 4 | | |
| 5 Net value of non-exempt-use assets (subtract line 4 from line 3) | 5 | | |
| 6 Multiply line 5 by 0.035 | 6 | | |
| 7 Recoveries of prior-year distributions | 7 | | |
| 8 Minimum Asset Amount (add line 7 to line 6) | 8 | | |

Section C - Distributable Amount

Current Year

- | | | |
|--|----------|--|
| 1 Adjusted net income for prior year (from Section A, line 8, Column A) | 1 | |
| 2 Enter 85% of line 1 | 2 | |
| 3 Minimum asset amount for prior year (from Section B, line 8, Column A) | 3 | |
| 4 Enter greater of line 2 or line 3 | 4 | |
| 5 Income tax imposed in prior year | 5 | |
| 6 Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions) | 6 | |

- 7** Check here if the current year is the organization's first as a non-functionally-integrated Type III supporting organization (see instructions)

Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations

(continued)

| Section D - Distributions | | Current Year |
|--|-----------|--------------|
| 1 Amounts paid to supported organizations to accomplish exempt purposes | 1 | |
| 2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity | 2 | |
| 3 Administrative expenses paid to accomplish exempt purposes of supported organizations | 3 | |
| 4 Amounts paid to acquire exempt-use assets | 4 | |
| 5 Qualified set-aside amounts (prior IRS approval required - provide details in Part VI) | 5 | |
| 6 Other distributions (describe in Part VI). See instructions | 6 | |
| 7 Total annual distributions. Add lines 1 through 6. | 7 | |
| 8 Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI). See instructions | 8 | |
| 9 Distributable amount for 2022 from Section C, line 6 | 9 | |
| 10 Line 8 amount divided by Line 9 amount | 10 | |

| Section E - Distribution Allocations (see instructions) | (i) Excess Distributions | (ii) Underdistributions Pre-2022 | (iii) Distributable Amount for 2022 |
|--|-----------------------------|--|---|
| 1 Distributable amount for 2022 from Section C, line 6 | | | |
| 2 Underdistributions, if any, for years prior to 2022 (reasonable cause required-- explain in Part VI). See instructions. | | | |
| 3 Excess distributions carryover, if any, to 2022: | | | |
| a From 2017. | | | |
| b From 2018. | | | |
| c From 2019. | | | |
| d From 2020. | | | |
| e From 2021. | | | |
| f Total of lines 3a through e | | | |
| g Applied to underdistributions of prior years | | | |
| h Applied to 2022 distributable amount | | | |
| i Carryover from 2017 not applied (see instructions) | | | |
| j Remainder. Subtract lines 3g, 3h, and 3i from line 3f. | | | |
| 4 Distributions for 2022 from Section D, line 7: \$ | | | |
| a Applied to underdistributions of prior years | | | |
| b Applied to 2022 distributable amount | | | |
| c Remainder. Subtract lines 4a and 4b from line 4. | | | |
| 5 Remaining underdistributions for years prior to 2022, if any. Subtract lines 3g and 4a from line 2. If the amount is greater than zero, explain in Part VI . See instructions. | | | |
| 6 Remaining underdistributions for 2022. Subtract lines 3h and 4b from line 1. If the amount is greater than zero, explain in Part VI . See instructions. | | | |
| 7 Excess distributions carryover to 2023. Add lines 3j and 4c. | | | |
| 8 Breakdown of line 7: | | | |
| a Excess from 2018. | | | |
| b Excess from 2019. | | | |
| c Excess from 2020. | | | |
| d Excess from 2021. | | | |
| e Excess from 2022. | | | |

Part VI Supplemental Information. Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a and 3b; Part V, line 1; Part V, Section B, line 1e; Part V Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information. (See instructions).

Facts And Circumstances Test

| Return Reference | Explanation |
|--|--|
| SCHEDULE A, PART II, LINE 10, EXPLANATION OF OTHER INCOME: | PARKING REIMBURSEMENT - 2018 AMOUNT: \$ 532,333. 2019 AMOUNT: \$ 532,856. 2020 AMOUNT: \$ 111,880. 2021 AMOUNT: \$ 0. 2022 AMOUNT: \$ 93,836. OTHER MISC REVENUE - 2018 AMOUNT: \$ 1,257,417. 2019 AMOUNT: \$ 1,402,286. 2020 AMOUNT: \$ 311,763. 2021 AMOUNT: \$ 24,273. 2022 AMOUNT: \$ 150,210. GOVERNMENT INTEREST - 2018 AMOUNT: \$ 10,203. 2019 AMOUNT: \$ 16,873. 2020 AMOUNT: \$ 8,300. 2021 AMOUNT: \$ 15,567. 2022 AMOUNT: \$ 8,233. |

Additional Data

Return to Form

Software ID:

Software Version:

Schedule B

Schedule of Contributors

OMB No. 1545-0047

(Form 990)
Department of the Treasury
Internal Revenue Service

▶ Attach to Form 990, 990-EZ, or 990-PF.
▶ Go to www.irs.gov/Form990 for the latest information.

2022

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number
53-0196932

Organization type (check one):

Filers of:

Section:

Form 990 or 990-EZ

- 501(c)() (enter number) organization
- 4947(a)(1) nonexempt charitable trust **not** treated as a private foundation
- 527 political organization

Form 990-PF

- 501(c)(3) exempt private foundation
- 4947(a)(1) nonexempt charitable trust treated as a private foundation
- 501(c)(3) taxable private foundation

Check if your organization is covered by the **General Rule** or a **Special Rule**.

Note: Only a section 501(c)(7), (8), or (10) organization can check boxes for both the General Rule and a Special Rule. See instructions.

General Rule

- For an organization filing Form 990, 990-EZ, or 990-PF that received, during the year, contributions totaling \$5,000 or more (in money or other property) from any one contributor. Complete Parts I and II. See instructions for determining a contributor's total contributions.

Special Rules

- For an organization described in section 501(c)(3) filing Form 990 or 990-EZ that met the 33¹/₃% support test of the regulations under sections 509(a)(1) and 170(b)(1)(A)(vi), that checked Schedule A (Form 990 or 990-EZ), Part II, line 13, 16a, or 16b, and that received from any one contributor, during the year, total contributions of the greater of (1) \$5,000 or (2) 2% of the amount on (i) Form 990, Part VIII, line 1h, or (ii) Form 990-EZ, line 1. Complete Parts I and II.
- For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, total contributions of more than \$1,000 *exclusively* for religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals. Complete Parts I, II, and III.
- For an organization described in section 501(c)(7), (8), or (10) filing Form 990 or 990-EZ that received from any one contributor, during the year, contributions *exclusively* for religious, charitable, etc., purposes, but no such contributions totaled more than \$1,000. If this box is checked, enter here the total contributions that were received during the year for an *exclusively* religious, charitable, etc., purpose. Don't complete any of the parts unless the **General Rule** applies to this organization because it received *nonexclusively* religious, charitable, etc., contributions totaling \$5,000 or more during the year ▶ \$ _____

Caution: An organization that isn't covered by the General Rule and/or the Special Rules doesn't file Schedule B (Form 990, 990-EZ, or 990-PF), but it **must** answer "No" on Part IV, line 2, of its Form 990; or check the box on line H of its Form 990-EZ or on its Form 990PF, Part I, line 2, to certify that it doesn't meet the filing requirements of Schedule B (Form 990, 990-EZ, or 990-PF).

Name of organization
 NATIONAL ACADEMY OF SCIENCES

Employer identification number
 53-0196932

Part I **Contributors** (see instructions). Use duplicate copies of Part I if additional space is needed.

| (a) No. | (b) Name, address, and ZIP + 4 | (c) Total contributions | (d) Type of contribution |
|------------|-----------------------------------|----------------------------|--|
| RESTRICTED | | \$ RESTRICTED | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |
| - | | \$ | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |
| - | | \$ | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |
| - | | \$ | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |
| - | | \$ | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |
| - | | \$ | <input type="checkbox"/> Person <input type="checkbox"/> Payroll <input type="checkbox"/> Noncash (Complete Part II for noncash contributions.) |

Name of organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part II **Noncash Property** (see instructions). Use duplicate copies of Part II if additional space is needed.

| (a) No. from Part I | (b) Description of noncash property given | (c) FMV (or estimate) (See instructions) | (d) Date received |
|---------------------------|--|--|----------------------|
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |
| - | _____ _____ _____ | _____ \$ | _____ |

Name of organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part III Exclusively religious, charitable, etc., contributions to organizations described in section 501(c)(7), (8), or (10) that total more than \$1,000 for the year from any one contributor. Complete columns (a) through (e) and the following line entry. For organizations completing Part III, enter the total of exclusively religious, charitable, etc., contributions of \$1,000 or less for the year. (Enter this information once. See instructions.) ▶ \$ _____

Use duplicate copies of Part III if additional space is needed.

| | | | |
|---------------------------------------|---------------------|--|-------------------------------------|
| (a) No. from Part I | (b) Purpose of gift | (c) Use of gift | (d) Description of how gift is held |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| (e) Transfer of gift | | | |
| Transferee's name, address, and ZIP 4 | | Relationship of transferor to transferee | |
| _____ | | _____ | |
| _____ | | _____ | |
| (a) No. from Part I | (b) Purpose of gift | (c) Use of gift | (d) Description of how gift is held |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| (e) Transfer of gift | | | |
| Transferee's name, address, and ZIP 4 | | Relationship of transferor to transferee | |
| _____ | | _____ | |
| _____ | | _____ | |
| (a) No. from Part I | (b) Purpose of gift | (c) Use of gift | (d) Description of how gift is held |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| (e) Transfer of gift | | | |
| Transferee's name, address, and ZIP 4 | | Relationship of transferor to transferee | |
| _____ | | _____ | |
| _____ | | _____ | |
| (a) No. from Part I | (b) Purpose of gift | (c) Use of gift | (d) Description of how gift is held |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |
| (e) Transfer of gift | | | |
| Transferee's name, address, and ZIP 4 | | Relationship of transferor to transferee | |
| _____ | | _____ | |
| _____ | | _____ | |

Additional Data

Return to Form

Software ID:

Software Version:

Supplemental Financial Statements

2022

Open to Public Inspection

Complete if the organization answered "Yes," on Form 990, Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.

Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury Internal Revenue Service

Name of the organization NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts.

Complete if the organization answered "Yes" on Form 990, Part IV, line 6.

Table with 2 columns: (a) Donor advised funds, (b) Funds and other accounts. Rows 1-4: Total number at end of year, Aggregate value of contributions to (during year), Aggregate value of grants from (during year), Aggregate value at end of year.

- 5 Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control?
6 Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit?

Part II Conservation Easements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 7.

- 1 Purpose(s) of conservation easements held by the organization (check all that apply).
2a Total number of conservation easements
2b Total acreage restricted by conservation easements
2c Number of conservation easements on a certified historic structure included in (a)
2d Number of conservation easements included in (c) acquired after 7/25/06, and not on a historic structure listed in the National Register

Table with 2 columns: Held at the End of the Year. Rows 2a, 2b, 2c, 2d.

- 3 Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax year
4 Number of states where property subject to conservation easement is located
5 Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds?
6 Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year
7 Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year
8 Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)?
9 In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for conservation easements.

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets.

Complete if the organization answered "Yes" on Form 990, Part IV, line 8.

- 1a If the organization elected, as permitted under FASB ASC 958, not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide, in Part XIII, the text of the footnote to its financial statements that describes these items.
1b If the organization elected, as permitted under FASB ASC 958, to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items:
2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under FASB ASC 958 relating to these items:

Part III Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets (continued)

- 3** Using the organization's acquisition, accession, and other records, check any of the following that are a significant use of its collection items (check all that apply):
- a** Public exhibition
 - b** Scholarly research
 - c** Preservation for future generations
 - d** Loan or exchange programs
 - e** Other
- 4** Provide a description of the organization's collections and explain how they further the organization's exempt purpose in Part XIII.
- 5** During the year, did the organization solicit or receive donations of art, historical treasures or other similar assets to be sold to raise funds rather than to be maintained as part of the organization's collection? . . . Yes No

Part IV Escrow and Custodial Arrangements.

Complete if the organization answered "Yes" on Form 990, Part IV, line 9, or reported an amount on Form 990, Part X, line 21.

- 1a** Is the organization an agent, trustee, custodian or other intermediary for contributions or other assets not included on Form 990, Part X? Yes No
- b** If "Yes," explain the arrangement in Part XIII and complete the following table:
- | | Amount |
|--|-----------|
| c Beginning balance | 1c |
| d Additions during the year | 1d |
| e Distributions during the year | 1e |
| f Ending balance | 1f |
- 2a** Did the organization include an amount on Form 990, Part X, line 21, for escrow or custodial account liability? Yes No
- b** If "Yes," explain the arrangement in Part XIII. Check here if the explanation has been provided in Part XIII

Part V Endowment Funds.

Complete if the organization answered "Yes" on Form 990, Part IV, line 10.

| | (a) Current year | (b) Prior year | (c) Two years back | (d) Three years back | (e) Four years back |
|---|------------------|----------------|--------------------|----------------------|---------------------|
| 1a Beginning of year balance | 729,185,863 | 643,253,184 | 591,981,194 | 510,729,179 | 506,239,689 |
| b Contributions | 3,669,854 | 7,102,361 | 7,943,307 | 24,860,491 | 36,353,688 |
| c Net investment earnings, gains, and losses | -74,500,036 | 101,144,413 | 63,537,747 | 75,191,857 | -12,549,155 |
| d Grants or scholarships | | | | | |
| e Other expenditures for facilities and programs | 16,430,938 | 22,314,095 | 20,209,064 | 18,800,333 | 19,315,043 |
| f Administrative expenses | | | | | |
| g End of year balance | 641,924,743 | 729,185,863 | 643,253,184 | 591,981,194 | 510,729,179 |

- 2** Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as:
- a** Board designated or quasi-endowment ▶ 27.000 %
 - b** Permanent endowment ▶ 73.000 %
 - c** Term endowment ▶
- The percentages on lines 2a, 2b, and 2c should equal 100%.
- 3a** Are there endowment funds not in the possession of the organization that are held and administered for the organization by:
- | | Yes | No |
|--|-----|----|
| (i) Unrelated organizations | No | No |
| (ii) Related organizations | No | No |
- b** If "Yes" on 3a(ii), are the related organizations listed as required on Schedule R?
- 4** Describe in Part XIII the intended uses of the organization's endowment funds.

Part VI Land, Buildings, and Equipment.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11a. See Form 990, Part X, line 10.

| Description of property | (a) Cost or other basis (investment) | (b) Cost or other basis (other) | (c) Accumulated depreciation | (d) Book value |
|--|--------------------------------------|---------------------------------|------------------------------|----------------|
| 1a Land | | 29,688,876 | | 29,688,876 |
| b Buildings | | 177,909,961 | 81,628,283 | 96,281,678 |
| c Leasehold improvements | | 4,073,377 | 3,771,379 | 301,998 |
| d Equipment | | 37,278,806 | 33,027,663 | 4,251,143 |
| e Other | | 832,892 | 39,688 | 793,204 |
| Total. Add lines 1a through 1e. (Column (d) must equal Form 990, Part X, column (B), line 10(c).) . . . ▶ | | | | 131,316,899 |

Part VII Investments - Other Securities.

Complete if the organization answered "Yes" on Form 990, Part IV, line 11b. See Form 990, Part X, line 12.

| (a) Description of security or category (including name of security) | (b) Book value | (c) Method of valuation: Cost or end-of-year market value |
|---|----------------|--|
| (1) Financial derivatives | | |
| (2) Closely-held equity interests | | |
| (3) Other _____ | | |
| (A) HEDGE FUNDS | 369,994,189 | F |
| (B) PRIVATE EQUITY | 144,200,466 | F |
| (C) LONG/SHORT EQ. HDG. FUNDS | 24,320,638 | F |
| (D) | | |
| (E) | | |
| (F) | | |
| (G) | | |
| (H) | | |
| Total. (Column (b) must equal Form 990, Part X, col. (B) line 12.) | 538,515,293 | |

Part VIII Investments - Program Related.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 11c. See Form 990, Part X, line 13.

| (a) Description of investment | (b) Book value | (c) Method of valuation: Cost or end-of-year market value |
|--|----------------|--|
| (1) | | |
| (2) | | |
| (3) | | |
| (4) | | |
| (5) | | |
| (6) | | |
| (7) | | |
| (8) | | |
| (9) | | |
| Total. (Column (b) must equal Form 990, Part X, col.(B) line 13.) | | |

Part IX Other Assets.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 11d. See Form 990, Part X, line 15.

| (a) Description | (b) Book value |
|--|----------------|
| (1) | |
| (2) | |
| (3) | |
| (4) | |
| (5) | |
| (6) | |
| (7) | |
| (8) | |
| (9) | |
| Total. (Column (b) must equal Form 990, Part X, col.(B) line 15.) | |

Part X Other Liabilities.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 25.

| 1. (a) Description of liability | (b) Book value |
|--|----------------|
| (1) Federal income taxes | |
| (6) | |
| (7) | |
| (8) | |
| (9) | |
| Total. (Column (b) must equal Form 990, Part X, col.(B) line 25.) | 25,595,286 |

2. Liability for uncertain tax positions. In Part XIII, provide the text of the footnote to the organization's financial statements that reports the organization's liability for uncertain tax positions under FIN 48 (ASC 740). Check here if the text of the footnote has been provided in Part XIII

Part XI Reconciliation of Revenue per Audited Financial Statements With Revenue per Return.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

| | | | |
|----------|--|-----------|--------------|
| 1 | Total revenue, gains, and other support per audited financial statements | 1 | 136,728,905 |
| 2 | Amounts included on line 1 but not on Form 990, Part VIII, line 12: | | |
| a | Net unrealized gains (losses) on investments | 2a | -157,223,083 |
| b | Donated services and use of facilities | 2b | |
| c | Recoveries of prior year grants | 2c | |
| d | Other (Describe in Part XIII.) | 2d | 17,474,111 |
| e | Add lines 2a through 2d | 2e | -139,748,972 |
| 3 | Subtract line 2e from line 1 | 3 | 276,477,877 |
| 4 | Amounts included on Form 990, Part VIII, line 12, but not on line 1: | | |
| a | Investment expenses not included on Form 990, Part VIII, line 7b | 4a | 3,447,539 |
| b | Other (Describe in Part XIII.) | 4b | |
| c | Add lines 4a and 4b | 4c | 3,447,539 |
| 5 | Total revenue. Add lines 3 and 4c . (This must equal Form 990, Part I, line 12.) | 5 | 279,925,416 |

Part XII Reconciliation of Expenses per Audited Financial Statements With Expenses per Return.

Complete if the organization answered 'Yes' on Form 990, Part IV, line 12a.

| | | | |
|----------|---|-----------|-------------|
| 1 | Total expenses and losses per audited financial statements | 1 | 350,759,161 |
| 2 | Amounts included on line 1 but not on Form 990, Part IX, line 25: | | |
| a | Donated services and use of facilities | 2a | |
| b | Prior year adjustments | 2b | |
| c | Other losses | 2c | |
| d | Other (Describe in Part XIII.) | 2d | 11,477,587 |
| e | Add lines 2a through 2d | 2e | 11,477,587 |
| 3 | Subtract line 2e from line 1 | 3 | 339,281,574 |
| 4 | Amounts included on Form 990, Part IX, line 25, but not on line 1: | | |
| a | Investment expenses not included on Form 990, Part VIII, line 7b | 4a | 3,447,539 |
| b | Other (Describe in Part XIII.) | 4b | |
| c | Add lines 4a and 4b | 4c | 3,447,539 |
| 5 | Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18.) | 5 | 342,729,113 |

Part XIII

Supplemental Information

Provide the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a and 4; Part IV, lines 1b and 2b; Part V, line 4; Part X, line 2; Part XI, lines 2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to provide any additional information.

| Return Reference | Explanation |
|--|--|
| PART V, LINE 4: | USE OF ENDOWMENT FUNDS EARNINGS FROM THE ENDOWMENT ARE USED TO FURTHER THE EXEMPT PURPOSES OF THE ORGANIZATION. |
| PART X, LINE 2: | LIABILITY FOR UNCERTAIN TAX POSITION NAS HAS DETERMINED THAT THERE ARE NO MATERIAL UNRELATED BUSINESS ACTIVITIES OR UNCERTAIN TAX POSITIONS THAT REQUIRE RECOGNITION OR DISCLOSURE IN THE ACCOMPANYING FINANCIAL STATEMENTS. |
| PART XI, LINE 2D - OTHER ADJUSTMENTS: | COST OF GOODS SOLD 15,352,770. UNREALIZED GAIN ON DERIVATIVES 2,091,776. RENTAL EXPENSE 474,142. UNREALIZED LOSS ON CHARITABLE GIFT ANNUITIES -438,398. INVESTMENT RELATED EXPENSES (UBIT) -6,179. |
| PART XII, LINE 2D - OTHER ADJUSTMENTS: | COST OF GOODS SOLD 15,352,770. RENTAL EXPENSE 474,142. RWBP ACTUARIAL VALUATION ADJ -4,343,854. INVESTMENT RELATED EXPENSES (UBIT) -6,179. ROUNDING ADJUSTMENT 708. |

Additional Data

[**Return to Form**](#)

Software ID:

Software Version:

2022

Open to Public Inspection

Statement of Activities Outside the United States

▶ Complete if the organization answered "Yes" to Form 990, Part IV, line 14b, 15, or 16.

▶ Attach to Form 990.

▶ Go to www.irs.gov/Form990 for instructions and the latest information.

SCHEDULE F (Form 990)

Department of the Treasury
Internal Revenue Service

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part I General Information on Activities Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 14b.

- For grantmakers.** Does the organization maintain records to substantiate the amount of its grants or other assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? Yes No
- For grantmakers.** Describe in Part V the organization's procedures for monitoring the use of its grants and other assistance outside the United States.

3 Activities per Region. (The following Part I, line 3 table can be duplicated if additional space is needed.)

| (a) Region | (b) Number of offices in the region | (c) Number of employees, agents, and independent contractors in the region | (d) Activities conducted in region (by type) (such as, fundraising, program services, investments, grants to recipients located in the region) | (e) If activity listed in (d) is a program service, describe specific type of service(s) in the region | (f) Total expenditures for and investments in the region |
|---|-------------------------------------|--|--|--|--|
| (1) CENTRAL AMERICA AND THE CARIBBEAN | 0 | 0 | INVESTMENTS | | 243,215,474 |
| (2) SUB-SAHARAN AFRICA | 0 | 0 | INVESTMENTS | | 19,379,048 |
| (3) CENTRAL AMERICA AND THE CARIBBEAN | 0 | 0 | GRANTMAKING | | 230,966 |
| (4) EAST ASIA AND THE PACIFIC | 0 | 0 | GRANTMAKING | | 874,856 |
| (5) EUROPE (INCLUDING ICELAND & GREENLAND) | 0 | 0 | GRANTMAKING | | 91,096 |
| (6) MIDDLE EAST AND NORTH AFRICA | 0 | 0 | GRANTMAKING | | 150,148 |
| (7) NORTH AMERICA | 0 | 0 | GRANTMAKING | | 40,000 |
| (8) RUSSIA AND NEIGHBORING STATES | 0 | 0 | GRANTMAKING | | 155,788 |
| (9) SOUTH AMERICA | 0 | 0 | GRANTMAKING | | 477,060 |
| (10) SOUTH ASIA | 0 | 0 | GRANTMAKING | | 413,569 |
| (11) SUB-SAHARAN AFRICA | 0 | 0 | GRANTMAKING | | 605,782 |
| (12) EAST ASIA AND THE PACIFIC | 0 | 6 | PROGRAM SERVICES | RADIATION EFFECTS | 1,416,635 |
| (13) | | | | | |
| (14) | | | | | |
| (15) | | | | | |
| (16) | | | | | |
| (17) | | | | | |
| 3a Sub-total | 0 | 0 | | | 264,137,376 |
| b Total from continuation sheets to Part I | 0 | 6 | | | 2,913,046 |
| c Totals (add lines 3a and 3b) | 0 | 6 | | | 267,050,422 |

Part II Grants and Other Assistance to Organizations or Entities Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed.

| 1 (a) Name of organization | (b) IRS code section and EIN (if applicable) | (c) Region | (d) Purpose of grant | (e) Amount of cash grant | (f) Manner of cash disbursement | (g) Amount of noncash assistance | (h) Description of noncash assistance | (i) Method of valuation (book, FMV, appraisal, other) |
|----------------------------|--|-----------------------------------|----------------------|--------------------------|---------------------------------|----------------------------------|---------------------------------------|---|
| (1) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 222,676 | WIRE | 0 | | |
| (2) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 222,676 | WIRE | 0 | | |
| (3) | | SOUTH ASIA | RESEARCH GRANTS | 141,384 | WIRE | 0 | | |
| (4) | | SOUTH AMERICA | RESEARCH GRANTS | 139,517 | WIRE | 0 | | |
| (5) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 136,916 | WIRE | 0 | | |
| (6) | | CENTRAL AMERICA AND THE CARIBBEAN | RESEARCH GRANTS | 127,181 | WIRE | 0 | | |
| (7) | | SOUTH AMERICA | RESEARCH GRANTS | 124,110 | WIRE | 0 | | |
| (8) | | CENTRAL AMERICA AND THE CARIBBEAN | RESEARCH GRANTS | 103,785 | WIRE | 0 | | |
| (9) | | SOUTH ASIA | RESEARCH GRANTS | 100,000 | WIRE | 0 | | |
| (10) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 94,741 | WIRE | 0 | | |
| (11) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 93,453 | WIRE | 0 | | |
| (12) | | SOUTH AMERICA | RESEARCH GRANTS | 88,119 | WIRE | 0 | | |
| (13) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 84,135 | WIRE | 0 | | |
| (14) | | RUSSIA AND NEIGHBORING STATES | RESEARCH GRANTS | 80,788 | WIRE | 0 | | |
| (15) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 80,000 | WIRE | 0 | | |
| (16) | | RUSSIA AND NEIGHBORING STATES | RESEARCH GRANTS | 75,000 | WIRE | 0 | | |
| (17) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 73,280 | WIRE | 0 | | |
| (18) | | MIDDLE EAST AND NORTH AFRICA | RESEARCH GRANTS | 72,800 | WIRE | 0 | | |
| (19) | | MIDDLE EAST AND NORTH AFRICA | RESEARCH GRANTS | 72,348 | WIRE | 0 | | |
| (20) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 58,825 | WIRE | 0 | | |
| (21) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 58,743 | WIRE | 0 | | |
| (22) | | SOUTH AMERICA | RESEARCH GRANTS | 56,095 | WIRE | 0 | | |
| (23) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 41,717 | WIRE | 0 | | |
| (24) | | SOUTH ASIA | RESEARCH GRANTS | 34,975 | WIRE | 0 | | |
| (25) | | SOUTH AMERICA | RESEARCH GRANTS | 34,509 | WIRE | 0 | | |
| (26) | | SOUTH AMERICA | RESEARCH GRANTS | 30,000 | WIRE | 0 | | |
| (27) | | SOUTH ASIA | RESEARCH GRANTS | 29,740 | WIRE | 0 | | |
| (28) | | SOUTH ASIA | RESEARCH GRANTS | 27,000 | WIRE | 0 | | |
| (29) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 26,697 | WIRE | 0 | | |
| (30) | | SOUTH ASIA | RESEARCH GRANTS | 25,000 | WIRE | 0 | | |
| (31) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 24,980 | WIRE | 0 | | |
| (32) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 23,850 | WIRE | 0 | | |
| (33) | | SOUTH ASIA | RESEARCH GRANTS | 17,925 | WIRE | 0 | | |
| (34) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 17,479 | WIRE | 0 | | |
| (35) | | EAST ASIA AND THE PACIFIC | RESEARCH GRANTS | 10,000 | WIRE | 0 | | |
| (36) | | SOUTH ASIA | RESEARCH GRANTS | 10,000 | WIRE | 0 | | |
| (37) | | SOUTH ASIA | RESEARCH GRANTS | 10,000 | WIRE | 0 | | |
| (38) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 9,961 | WIRE | 0 | | |
| (39) | | SUB-SAHARAN AFRICA | RESEARCH GRANTS | 9,212 | WIRE | 0 | | |
| (40) | | SOUTH ASIA | RESEARCH GRANTS | 7,699 | WIRE | 0 | | |
| (41) | | SOUTH ASIA | RESEARCH GRANTS | 5,005 | WIRE | 0 | | |

2 Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as tax-exempt by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter 3

3 Enter total number of other organizations or entities 44

Part III Grants and Other Assistance to Individuals Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 16.

Part III can be duplicated if additional space is needed.

| (a) Type of grant or assistance | (b) Region | (c) Number of recipients | (d) Amount of cash grant | (e) Manner of cash disbursement | (f) Amount of noncash assistance | (g) Description of noncash assistance | (h) Method of valuation (book, FMV, appraisal, other) |
|---|--|--------------------------|--------------------------|---------------------------------|----------------------------------|---------------------------------------|---|
| (1) INDIVIDUAL PRIZES & AWARDS | EAST ASIA AND THE PACIFIC | 2 | 40,000 | WIRE/CHECK | | | |
| (2) INDIVIDUAL PRIZES & AWARDS | EUROPE (INCLUDING ICELAND & GREENLAND) | 3 | 81,000 | WIRE/CHECK | | | |
| (3) INDIVIDUAL PRIZES & AWARDS | NORTH AMERICA | 2 | 40,000 | ACH | | | |
| (4) INDIVIDUAL PRIZES & AWARDS | SOUTH ASIA | 1 | 500 | WIRE | | | |
| (5) INDIVIDUAL PRIZES & AWARDS | SUB-SAHARAN AFRICA | 5 | 140,000 | WIRE/CHECK/ACH | | | |
| (6) INDIVIDUAL SPEAKER FEES & HONORARIA | EAST ASIA AND THE PACIFIC | 4 | 9,667 | WIRE | | | |
| (7) INDIVIDUAL SPEAKER FEES & HONORARIA | EUROPE (INCLUDING ICELAND & GREENLAND) | 1 | 10,000 | WIRE | | | |
| (8) INDIVIDUAL SPEAKER FEES & HONORARIA | SOUTH ASIA | 3 | 3,000 | WIRE | | | |
| (9) | | | | | | | |
| (10) | | | | | | | |
| (11) | | | | | | | |
| (12) | | | | | | | |
| (13) | | | | | | | |
| (14) | | | | | | | |
| (15) | | | | | | | |
| (16) | | | | | | | |
| (17) | | | | | | | |
| (18) | | | | | | | |

Part IV Foreign Forms

- 1 Was the organization a U.S. transferor of property to a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 926, Return by a U.S. Transferor of Property to a Foreign Corporation (see Instructions for Form 926)* Yes No
- 2 Did the organization have an interest in a foreign trust during the tax year? *If "Yes," the organization may be required to separately file Form 3520, Annual Return to Report Transactions with Foreign Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign Trust With a U.S. Owner (see Instructions for Forms 3520 and 3520-A; don't file with Form 990)* Yes No
- 3 Did the organization have an ownership interest in a foreign corporation during the tax year? *If "Yes," the organization may be required to file Form 5471, Information Return of U.S. Persons with Respect to Certain Foreign Corporations. (see Instructions for Form 5471)* Yes No
- 4 Was the organization a direct or indirect shareholder of a passive foreign investment company or a qualified electing fund during the tax year? *If "Yes," the organization may be required to file Form 8621, Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund. (see Instructions for Form 8621)* . Yes No
- 5 Did the organization have an ownership interest in a foreign partnership during the tax year? *If "Yes," the organization may be required to file Form 8865, Return of U.S. Persons with Respect to Certain Foreign Partnerships (see Instructions for Form 8865)* Yes No
- 6 Did the organization have any operations in or related to any boycotting countries during the tax year? *If "Yes," the organization may be required to separately file Form 5713, International Boycott Report (see Instructions for Form 5713; don't file with Form 990).* Yes No

Part V Supplemental Information

Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information. See instructions.

| ReturnReference | Explanation |
|-----------------------------|---|
| PART I, LINE 2: | MONITORING THE USE OF GRANTS AND OTHER ASSISTANCE NAS PROGRAMMATIC STAFF REVIEW GRANT PROPOSALS AND BUDGETS SUBMITTED BY RECIPIENT ORGANIZATIONS PRIOR TO AWARDING THE GRANT FUNDS. NAS POLICY IS TO COMPLY WITH RESTRICTIONS ON GRANT AWARDS TO COUNTRIES ON THE U.S. GOVERNMENT'S CURRENT LIST OF SANCTIONED COUNTRIES. RECIPIENTS ARE GENERALLY EXPECTED TO SUBMIT PROGRESS REPORTS DURING THE GRANT PERIOD. |
| PART I, LINE 3: | ACCOUNTING METHOD USED THE EXPENDITURES, PER REGION, ARE PRESENTED ON THE ACCRUAL BASIS OF ACCOUNTING. |
| PART III ACCOUNTING METHOD: | |
| | |
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Additional Data

Software ID:

Software Version:

Schedule I (Form 990) Grants and Other Assistance to Organizations, Governments and Individuals in the United States

Department of the Treasury Internal Revenue Service Complete if the organization answered "Yes," on Form 990, Part IV, line 21 or 22. Attach to Form 990. Go to www.irs.gov/Form990 for the latest information.

NAME OF THE ORGANIZATION: NATIONAL ACADEMY OF SCIENCES Employer identification number: 53-0196932

Part I General Information on Grants and Assistance

Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection criteria used to award the grants or assistance? Yes No

Does the organization have the organization's procedures for monitoring the use of grant funds in the United States? Yes No

Part II Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any recipient that received more than \$5,000. Part II can be duplicated if additional space is needed.

Table with 8 columns: (a) Name and address of organization or government, (b) EIN, (c) IRC section (if applicable), (d) Amount of cash grant, (e) Amount of non-cash assistance, (f) Method of valuation (book, FMV, appraisal, other), (g) Description of non-cash assistance, (h) Purpose of grant or assistance. Contains 100 rows of data.

Enter total number of section 501(c)(3) and government organizations listed in the line 1 table

Enter total number of other organizations listed in the line 1 table

Part III Grants and Other Assistance to Domestic Individuals. Complete if the organization answered "Yes" on Form 990, Part IV, line 22.

Part III can be duplicated if additional space is needed.

| (a) Type of grant or assistance | (b) Number of recipients | (c) Amount of cash grant | (d) Amount of noncash assistance | (e) Method of valuation (book, FMV, appraisal, other) | (f) Description of noncash assistance |
|---------------------------------|--------------------------|--------------------------|----------------------------------|---|---------------------------------------|
| (1) FELLOWSHIP STIPENDS | 1 145 | 28,563,529 | 0 | | |
| (2) TUITION & FEES | 7 | 179,687 | 0 | | |
| (3) TRAVEL GRANTS | 1 232 | 2,194,773 | 0 | | |
| (4) HONORARIA PRIZES | 3 27 | 3,151,596 | 0 | | |
| (4) | | | | | |
| (5) | | | | | |
| (6) | | | | | |
| (7) | | | | | |

Part IV Supplemental Information. Provide the information required in Part I, line 2; Part III, column (b); and any other additional information.

| Return Reference | Explanation |
|------------------|--|
| PART I, LINE 2: | MONITORING THE USE OF GRANTS AND OTHER ASSISTANCE DISBURSEMENTS FOR GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS ARE MADE IN FURTHERANCE OF THE INSTITUTION'S EXEMPT PURPOSES AND IN ACCORDANCE WITH PROCEDURES INTENDED TO CONFIRM THAT INDIVIDUALS AND ORGANIZATIONS ARE ADEQUATELY INVESTIGATED TO CONFIRM THAT THEY ARE QUALIFYING RECIPIENTS. RECIPIENTS ARE GENERALLY EXPECTED TO SUBMIT PROGRESS REPORTS DURING THE GRANT PERIOD AND TO RETURN FUNDS NOT SPENT FOR THE PURPOSE OF THE GRANT. |

Additional Data

Return to Form

Software ID:
Software Version:

Schedule J
(Form 990)

Compensation Information

OMB No. 1545-0047

For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

- ▶ **Complete if the organization answered "Yes" on Form 990, Part IV, line 23.**
- ▶ **Attach to Form 990.**
- ▶ **Go to www.irs.gov/Form990 for instructions and the latest information.**

2022

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part I Questions Regarding Compensation

1a Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990, Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items.

- | | |
|--|---|
| <input type="checkbox"/> First-class or charter travel | <input checked="" type="checkbox"/> Housing allowance or residence for personal use |
| <input checked="" type="checkbox"/> Travel for companions | <input type="checkbox"/> Payments for business use of personal residence |
| <input checked="" type="checkbox"/> Tax idemnification and gross-up payments | <input type="checkbox"/> Health or social club dues or initiation fees |
| <input type="checkbox"/> Discretionary spending account | <input type="checkbox"/> Personal services (e.g., maid, chauffeur, chef) |

b If any of the boxes on Line 1a are checked, did the organization follow a written policy regarding payment or reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain

2 Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors, trustees, officers, including the CEO/Executive Director, regarding the items checked on Line 1a?

3 Indicate which, if any, of the following the filing organization used to establish the compensation of the organization's CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to establish compensation of the CEO/Executive Director, but explain in Part III.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Compensation committee | <input type="checkbox"/> Written employment contract |
| <input type="checkbox"/> Independent compensation consultant | <input checked="" type="checkbox"/> Compensation survey or study |
| <input type="checkbox"/> Form 990 of other organizations | <input checked="" type="checkbox"/> Approval by the board or compensation committee |

4 During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing organization or a related organization:

- a** Receive a severance payment or change-of-control payment?
 - b** Participate in, or receive payment from, a supplemental nonqualified retirement plan?
 - c** Participate in, or receive payment from, an equity-based compensation arrangement?
- If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.

Only 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.

5 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the revenues of:

- a** The organization?
 - b** Any related organization?
- If "Yes," on line 5a or 5b, describe in Part III.

6 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation contingent on the net earnings of:

- a** The organization?
 - b** Any related organization?
- If "Yes," on line 6a or 6b, describe in Part III.

7 For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments not described in lines 5 and 6? If "Yes," describe in Part III.

8 Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III.

9 If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?

| | Yes | No |
|-----------|-----|----|
| 1b | Yes | |
| 2 | Yes | |
| 4a | | No |
| 4b | | No |
| 4c | | No |
| 5a | | No |
| 5b | | No |
| 6a | | No |
| 6b | | No |
| 7 | Yes | |
| 8 | | No |
| 9 | | |

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that are not listed on Form 990, Part VII.

Note. The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

| (A) Name and Title | | (B) Breakdown of W-2, 1099-MISC compensation, and/or 1099-NEC | | | (C) Retirement and other deferred compensation | (D) Nontaxable benefits | (E) Total of columns (B)(i)-(D) | (F) Compensation in column (B) reported as deferred on prior Form 990 |
|---|------|---|-------------------------------------|-------------------------------------|--|-------------------------|---------------------------------|---|
| | | (i) Base compensation | (ii) Bonus & incentive compensation | (iii) Other reportable compensation | | | | |
| 1 MARCIA MCNUTT PRESIDENT | (i) | 767,674 | 0 | 244,082 | 56,650 | 28,474 | 1,096,880 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 JOHN ANDERSON PRESIDENT - NAE | (i) | 655,366 | 99,125 | 242,117 | 56,650 | 29,319 | 1,082,577 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 VICTOR DZAU PRESIDENT - NAM | (i) | 754,308 | 0 | 242,113 | 56,650 | 29,485 | 1,082,556 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 GREGORY SYMMES CHIEF PROGRAM OFFICER | (i) | 371,104 | 0 | 41,536 | 56,650 | 24,603 | 493,893 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 LORY WINGATE CHIEF OPERATING OFFICER | (i) | 389,577 | 0 | 14,026 | 56,650 | 31,211 | 491,464 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 ALTON ROMIG NAE EXECUTIVE OFFICER | (i) | 296,324 | 6,440 | 31,581 | 56,650 | 29,975 | 420,970 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 LEONARD KIM CHIEF INFORMATION OFFICER | (i) | 296,804 | 5,635 | 29,343 | 56,650 | 30,415 | 418,847 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 ALINA BRENNER RERF SENIOR RESEARCHER | (i) | 140,422 | 0 | 208,564 | 20,039 | 48,746 | 417,771 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 KENNETH FULTON NAS EXECUTIVE DIRECTOR | (i) | 320,993 | 4,839 | 10,466 | 56,650 | 16,773 | 409,721 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 AUDREY MOSLEY GENERAL COUNSEL | (i) | 323,869 | 4,839 | 11,223 | 56,650 | 10,185 | 406,766 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 MARY SALMON CHIEF FINANCIAL OFFICER | (i) | 305,284 | 9,654 | 27,461 | 41,400 | 7,920 | 391,719 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 NEIL PEDERSEN EXECUTIVE DIRECTOR, TRB | (i) | 274,678 | 0 | 25,996 | 54,542 | 1,807 | 357,023 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 VAUGHAN TUREKIAN EXECUTIVE DIRECTOR, PGA | (i) | 274,458 | 0 | 2,648 | 38,532 | 39,054 | 354,692 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 MONICA FEIT EXECUTIVE DIRECTOR, HMD | (i) | 269,870 | 0 | 2,637 | 38,029 | 40,063 | 350,599 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 LAUREN ALEXANDER AUGUSTINE EXECUTIVE DIRECTOR, GULF | (i) | 263,654 | 0 | 2,623 | 37,214 | 40,432 | 343,923 | 0 |
| | (ii) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Part III Supplemental Information

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information.

| Return Reference | Explanation |
|------------------|---|
| PART I, LINE 1A | HOUSING ALLOWANCE THE PRESIDENT OF THE NATIONAL ACADEMY OF SCIENCES, THE NATIONAL ACADEMY OF MEDICINE (NAM), AND THE NATIONAL ACADEMY OF ENGINEERING (NAE) EACH RECEIVED A SUPPLEMENT TO SALARY FOR THE COST OF RENTAL HOUSING IN THE WASHINGTON, DC AREA FOR PERSONAL USE AND TRAVEL EXPENSES. THE ALLOWANCE IS REPORTED AS TAXABLE INCOME ON FORM W-2. TRAVEL FOR COMPANIONS NAS PROCEDURES PROVIDE FOR REIMBURSEMENT OF TRAVEL EXPENSES FOR THE SPOUSES OF THE PRESIDENTS OF NAS, NAE, AND NAM SOLELY IN CIRCUMSTANCES IN WHICH THE SPOUSE'S PRESENCE SERVES A BONA FIDE BUSINESS PURPOSE OF NAS AND THE EXPENSES HAVE BEEN PROPERLY SUBSTANTIATED. TRAVEL EXPENSES ARE REVIEWED EACH YEAR THROUGH A SURVEY OF THE EXECUTIVE OFFICES OF THE PRESIDENTS. TAX INDEMNIFICATION AND GROSS-UP PAYMENTS NAS PROVIDES TAX EQUALIZATION PAYMENTS FOR EMPLOYEES ON INTERNATIONAL ASSIGNMENT IN JAPAN GREATER THAN SIX MONTHS. THE OBJECTIVE OF THE NAS TAX EQUALIZATION GUIDELINES IS TO EQUALIZE THE TAX BURDEN OF EMPLOYEES ASSIGNED TO JAPAN. PART-TIME OFFICERS' COMPENSATION FOR THE VICE PRESIDENT, TREASURER, INTERNATIONAL SECRETARY AND HOME SECRETARY, TIME ESTIMATES ARE BASED ON A PERCENTAGE LEVEL OF EFFORT, WHICH RANGES BETWEEN 25% AND 50%. NAS REIMBURSES EACH PART TIME OFFICER'S HOME INSTITUTION FOR THE APPLICABLE PERCENTAGE OF SALARY PAID BY THE HOME INSTITUTION. |
| PART I, LINE 7 | NON-FIXED PAYMENTS CERTAIN OFFICERS, KEY, AND OTHER EMPLOYEES OF NAS RECEIVED LUMP-SUM MERIT AWARDS. MERIT AWARDS ARE DETERMINED BY A NUMBER OF VARIABLES INCLUDING BUT NOT LIMITED TO INDIVIDUAL PERFORMANCE AS WELL AS ORGANIZATION OPERATIONAL ACHIEVEMENTS. MERIT AWARDS PAYMENTS ARE REPORTED IN PART II, COLUMN B(II). |

Additional Data

Return to Form

Software ID:

Software Version:

Note: To capture the full content of this document, please select landscape mode (11" x 8.5") when printing.

**Schedule K
(Form 990)**

Supplemental Information on Tax-Exempt Bonds

OMB No. 1545-0047

2022

**Open to Public
Inspection**

▶ Complete if the organization answered "Yes" to Form 990, Part VI, line 24a. Provide descriptions, explanations, and any additional information in Part VI.

▶ Attach to Form 990.

▶ Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury
Internal Revenue Service

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number
53-0196932

Part I Bond Issues

| (a) Issuer name | (b) Issuer EIN | (c) CUSIP # | (d) Date issued | (e) Issue price | (f) Description of purpose | (g) Defeased | | (h) On behalf of issuer | | (i) Pool financing | |
|------------------------|----------------|-------------|-----------------|-----------------|-----------------------------------|--------------|----|-------------------------|----|--------------------|----|
| | | | | | | Yes | No | Yes | No | Yes | No |
| A DISTRICT OF COLUMBIA | 53-6001131 | 000000000 | 08-01-2019 | 57,100,000 | REFUND SERIES 2008A BONDS | | X | | X | | X |
| B DISTRICT OF COLUMBIA | 53-6001131 | 000000000 | 05-01-2017 | 46,770,000 | REFUND SERIES 2009A BONDS | | X | | X | | X |
| C DISTRICT OF COLUMBIA | 53-6001131 | 000000000 | 12-21-2017 | 52,760,000 | PARTIAL REFUND SERIES 2010A BONDS | | X | | X | | X |

Part II Proceeds

| | A | B | C | D |
|---|------------|------------|------------|----|
| 1 Amount of bonds retired | | | | |
| 2 Amount of bonds legally defeased | | | | |
| 3 Total proceeds of issue | 66,325,000 | 52,120,000 | 52,760,000 | |
| 4 Gross proceeds in reserve funds | | | | |
| 5 Capitalized interest from proceeds | | | | |
| 6 Proceeds in refunding escrows | | | | |
| 7 Issuance costs from proceeds | | | | |
| 8 Credit enhancement from proceeds | | | | |
| 9 Working capital expenditures from proceeds | | | | |
| 10 Capital expenditures from proceeds | | | | |
| 11 Other spent proceeds | | | | |
| 12 Other unspent proceeds | | | | |
| 13 Year of substantial completion | 2002 | 2002 | 2012 | |
| | Yes | No | Yes | No |
| 14 Were the bonds issued as part of a current refunding issue of tax-exempt bonds (or, if issued prior to 2020, a current refunding issue)? | X | | X | |
| 15 Were the bonds issued as part of an advance refunding issue of taxable bonds (or, if issued prior to 2020, an advance refunding issue)? | | X | X | X |
| 16 Has the final allocation of proceeds been made? | X | | X | X |
| 17 Does the organization maintain adequate books and records to support the final allocation of proceeds? | X | | X | X |

Part III Private Business Use

| | A | | B | | C | | D | |
|---|-----|---------|-----|----|-----|----|-----|----|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| 1 Was the organization a partner in a partnership, or a member of an LLC, which owned property financed by tax-exempt bonds? | | X | | | | | | |
| 2 Are there any lease arrangements that may result in private business use of bond-financed property? | | X | | | | | | |
| 3a Are there any management or service contracts that may result in private business use of bond-financed property? | | X | | | | | | |
| b If "Yes" to line 3a, does the organization routinely engage bond counsel or other outside counsel to review any management or service contracts relating to the financed property? | | | | | | | | |
| c Are there any research agreements that may result in private business use of bond-financed property? | X | | | | | | | |
| d If "Yes" to line 3c, does the organization routinely engage bond counsel or other outside counsel to review any research agreements relating to the financed property? | X | | | | | | | |
| 4 Enter the percentage of financed property used in a private business use by entities other than a section 501(c)(3) organization or a state or local government ▶ | | 0.130 % | | | | | | |
| 5 Enter the percentage of financed property used in a private business use as a result of unrelated trade or business activity carried on by your organization, another section 501(c)(3) organization, or a state or local government ▶ | | 0.010 % | | | | | | |
| 6 Total of lines 4 and 5 | | 0.140 % | | | | | | |
| 7 Does the bond issue meet the private security or payment test? | | X | | | | | | |
| 8a Has there been a sale or disposition of any of the bond-financed property to a nongovernmental person other than a 501(c)(3) organization since the bonds were issued? | | X | | | | | | |
| b If "Yes" to line 8a, enter the percentage of bond-financed property sold or disposed of. | | | | | | | | |
| c If "Yes" to line 8a, was any remedial action taken pursuant to Regulations sections 1.141-12 and 1.145-2? | | | | | | | | |
| 9 Has the organization established written procedures to ensure that all nonqualified bonds of the issue are remediated in accordance with the requirements under Regulations sections 1.141-12 and 1.145-2? | X | | | | | | | |

Part IV Arbitrage

| | A | | B | | C | | D | |
|---|-----|----|-----|----|-----|----|-----|----|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| 1 Has the issuer filed Form 8038-T, Arbitrage Rebate, Yield Reduction and Penalty in Lieu of Arbitrage Rebate? | | X | | X | | X | | |
| 2 If "No" to line 1, did the following apply? | | | | | | | | |
| a Rebate not due yet? | | X | | X | X | | | |
| b Exception to rebate? | X | | X | | | X | | |
| c No rebate due? | | X | | X | | X | | |
| If "Yes" to line 2c, provide in Part VI the date the rebate computation was performed | | | | | | | | |
| 3 Is the bond issue a variable rate issue? | X | | X | | X | | | |

Part IV Arbitrage (Continued)

| | A | | B | | C | | D | |
|--|-----|----|-----|----|-----|----|-----|----|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| 4a Has the organization or the governmental issuer entered into a qualified hedge with respect to the bond issue? | | X | | X | | X | | |
| b Name of provider | | | | | | | | |
| c Term of hedge | | | | | | | | |
| d Was the hedge superintegrated? | | | | | | | | |
| e Was the hedge terminated? | | | | | | | | |
| 5a Were gross proceeds invested in a guaranteed investment contract (GIC)? | | X | | X | | X | | |
| b Name of provider | | | | | | | | |
| c Term of GIC | | | | | | | | |
| d Was the regulatory safe harbor for establishing the fair market value of the GIC satisfied? | | | | | | | | |
| 6 Were any gross proceeds invested beyond an available temporary period? | | X | | X | | X | | |
| 7 Has the organization established written procedures to monitor the requirements of section 148? | X | | X | | X | | | |

Part V Procedures To Undertake Corrective Action

| | A | | B | | C | | D | |
|--|-----|----|-----|----|-----|----|-----|----|
| | Yes | No | Yes | No | Yes | No | Yes | No |
| Has the organization established written procedures to ensure that violations of federal tax requirements are timely identified and corrected through the voluntary closing agreement program if self-remediation is not available under applicable regulations? | X | | X | | X | | | |

Part VI Supplemental Information. Provide additional information for responses to questions on Schedule K. (See instructions).

| Return Reference | Explanation |
|----------------------------------|---|
| PART II, LINE 3, COLUMN A AND B: | PART II, LINE 3 AMOUNT REFLECTS THE TOTAL PROCEEDS FROM THE ORIGINAL BOND ISSUES, WHILE THE ISSUE PRICE IN PART I REFLECTS THE REISSUED AMOUNT PER THE FORM 8038. |
| PART III, LINE 3C, COLUMN C: | THE NAS HAS ENTERED INTO RESEARCH AGREEMENTS, WHICH NAS BELIEVES SATISFIES THE SAFE HARBOR STANDARDS UNDER REV. PROC. 2007-47. |
| PART IV, LINE 2B, COLUMN A: | THE REBATE COMPUTATION WAS PERFORMED ON DECEMBER 3, 2012. |
| PART IV, LINE 2B, COLUMN B: | THE REBATE COMPUTATION WAS PERFORMED ON DECEMBER 3, 2012. |

Additional Data

[Return to Form](#)

Software ID:

Software Version:

Noncash Contributions

2022

Open to Public Inspection

- ▶ **Complete if the organizations answered "Yes" on Form 990, Part IV, lines 29 or 30.**
- ▶ **Attach to Form 990.**
- ▶ **Go to www.irs.gov/Form990 for the latest information.**

Department of the Treasury
Internal Revenue Service

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part I Types of Property

| | (a) Check if applicable | (b) Number of contributions or items contributed | (c) Noncash contribution amounts reported on Form 990, Part VIII, line 1g | (d) Method of determining noncash contribution amounts |
|--|----------------------------|---|--|---|
| 1 Art—Works of art | | | | |
| 2 Art—Historical treasures | | | | |
| 3 Art—Fractional interests | | | | |
| 4 Books and publications | | | | |
| 5 Clothing and household goods | | | | |
| 6 Cars and other vehicles | | | | |
| 7 Boats and planes | | | | |
| 8 Intellectual property | | | | |
| 9 Securities—Publicly traded | X | 8 | 1,098,043 | SELLING PRICE |
| 10 Securities—Closely held stock | | | | |
| 11 Securities—Partnership, LLC, or trust interests | | | | |
| 12 Securities—Miscellaneous | | | | |
| 13 Qualified conservation contribution—Historic structures | | | | |
| 14 Qualified conservation contribution—Other | | | | |
| 15 Real estate—Residential | | | | |
| 16 Real estate—Commercial | | | | |
| 17 Real estate—Other | | | | |
| 18 Collectibles | | | | |
| 19 Food inventory | | | | |
| 20 Drugs and medical supplies | | | | |
| 21 Taxidermy | | | | |
| 22 Historical artifacts | | | | |
| 23 Scientific specimens | | | | |
| 24 Archeological artifacts | | | | |
| 25 Other ▶ (_____) | | | | |
| 26 Other ▶ (_____) | | | | |
| 27 Other ▶ (_____) | | | | |
| 28 Other ▶ (_____) | | | | |

29 Number of Forms 8283 received by the organization during the tax year for contributions for which the organization completed Form 8283, Part IV, Donee Acknowledgement **29**

30a During the year, did the organization receive by contribution any property reported in Part I, lines 1 through 28, that it must hold for at least three years from the date of the initial contribution, and which isn't required to be used for exempt purposes for the entire holding period?

| | Yes | No |
|------------|-----|----|
| 30a | | No |
| 31 | Yes | |
| 32a | | No |
| 33 | | |

- b** If "Yes," describe the arrangement in Part II.
- 31** Does the organization have a gift acceptance policy that requires the review of any nonstandard contributions?
- 32a** Does the organization hire or use third parties or related organizations to solicit, process, or sell noncash contributions?
- b** If "Yes," describe in Part II.
- 33** If the organization didn't report an amount in column (c) for a type of property for which column (a) is checked, describe in Part II.

Part II **Supplemental Information.** Provide the information required by Part I, lines 30b, 32b, and 33, and whether the organization is reporting in Part I, column (b), the number of contributions, the number of items received, or a combination of both. Also complete this part for any additional information.

| Return Reference | Explanation |
|---------------------|--|
| PART I, COLUMN (B): | NUMBER OF CONTRIBUTIONS THE ORGANIZATION IS REPORTING THE NUMBER OF CONTRIBUTIONS IN COLUMN (B). |

Additional Data

Return to Form

Software ID:

Software Version:

SCHEDULE O
(Form 990)**Supplemental Information to Form 990 or 990-EZ**

Complete to provide information for responses to specific questions on
Form 990 or 990-EZ or to provide any additional information.

▶ Attach to Form 990 or 990-EZ.

▶ Go to www.irs.gov/Form990 for the latest information.

2022**Open to Public
Inspection**Department of the Treasury
Internal Revenue ServiceName of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

| Return Reference | Explanation |
|---|---|
| FORM 990, PART VI, SECTION A, LINE 1A | PART-TIME OFFICERS' COMPENSATION FOR THE VICE PRESIDENT, TREASURER, FOREIGN SECRETARY AND HOME SECRETARY, TIME ESTIMATES ARE BASED ON A PERCENTAGE LEVEL OF EFFORT, WHICH RANGES BETWEEN 25% AND 50%. NAS REIMBURSES EACH PART TIME OFFICER'S HOME INSTITUTION FOR THE APPLICABLE PERCENTAGE OF SALARY PAID BY THE HOME INSTITUTION. |
| FORM 990, PART VI, SECTION A, LINE 6 | MEMBERS OR STOCKHOLDERS THE ORGANIZATION IS A PRIVATE MEMBERSHIP ORGANIZATION. THE NAS CONSTITUTION PROVIDES THAT THE ACADEMY SHALL CONSIST OF MEMBERS, MEMBERS EMERITI AND INTERNATIONAL ASSOCIATES. MEMBERS OF NAS ARE ELECTED BY THE MEMBERS IN RECOGNITION OF THEIR DISTINGUISHED AND CONTINUING ACHIEVEMENTS IN ORIGINAL RESEARCH. THE OFFICERS OF THE ACADEMY ARE CHOSEN FROM THE MEMBERSHIP, AND AMENDMENTS TO THE ORGANIZATION'S CONSTITUTION AND BYLAWS, AND ELECTION OF NEW MEMBERS, OFFICERS, AND COUNCIL MEMBERS REQUIRE A VOTE OF THE MEMBERS. THE OFFICERS OF THE ORGANIZATION, TOGETHER WITH TWELVE MEMBERS TO BE ELECTED, SHALL CONSTITUTE THE NAS COUNCIL FOR THE TRANSACTION OF SUCH BUSINESS AS MAY BE ASSIGNED TO IT BY THE CONSTITUTION, BYLAWS, OR THE MEMBERSHIP. THE NAS COUNCIL HAS GENERAL SUPERVISION OVER THE ELECTION OF THE OFFICERS OF THE ORGANIZATION, AND SHALL SET THE DATE FOR ELECTION AND APPOINTING NOMINATING COMMITTEES. THE NAS COUNCIL MAY DELEGATE ITS AUTHORITY TO APPROPRIATE OFFICIALS OF THE ORGANIZATION EXCEPT WITH RESPECT TO THOSE AUTHORITIES CONCERNING MEMBERSHIP AFFAIRS. |
| FORM 990, PART VI, SECTION A, LINE 7A | PLEASE SEE FORM 990, PART VI, SECTION A, LINE 6 NARRATIVE. |
| FORM 990, PART VI, SECTION A, LINE 7B | PLEASE SEE FORM 990, PART VI, SECTION A, LINE 6 NARRATIVE. |
| FORM 990, PART VI, SECTION B, LINE 11B | FORM 990 REVIEW PROCESS THE DRAFT 990 IS PREPARED BY THE OFFICE OF THE CHIEF FINANCIAL OFFICER. IT IS REVIEWED BY THE OFFICE OF GENERAL COUNSEL AND AN EXTERNAL TAX ADVISOR BEFORE BEING REVIEWED BY THE AUDIT COMMITTEE. THE FINAL FORM IS THEN PROVIDED TO THE NAS COUNCIL PRIOR TO FILING. |
| FORM 990, PART VI, SECTION B, LINE 12C | ONFLICT OF INTEREST POLICY MONITORING AND ENFORCEMENT ANNUALLY, THE GENERAL COUNSEL LEADS A DISCUSSION AT A MEETING OF OFFICERS AND COUNCIL MEMBERS AT WHICH THE CONFLICT OF INTEREST POLICY IS REVIEWED. OFFICERS AND COUNCIL MEMBERS ARE ASKED TO SIGN A STATEMENT THAT THEY WILL ABIDE BY THE ORGANIZATION'S CONFLICT OF INTEREST POLICIES AND PROCEDURES. OFFICERS, COUNCIL MEMBERS, AND KEY EMPLOYEES ARE ASKED TO COMPLETE AN ANNUAL QUESTIONNAIRE REGARDING CERTAIN BUSINESS TRANSACTIONS THAT COULD POTENTIALLY RESULT IN A CONFLICT OF INTEREST. |
| FORM 990, PART VI, SECTION B, LINE 15 | PROCESS OF DETERMINING COMPENSATION COMPENSATION DECISIONS FOR ALL DISQUALIFIED PERSONS AS DEFINED IN IRC SECTION 4958 ARE MADE ANNUALLY BY AN EXECUTIVE COMPENSATION COMMITTEE COMPOSED OF INDEPENDENT MEMBERS ON THE BASIS OF EXECUTIVE COMPENSATION COMPATIBILITY DATA, INCLUDING A MARKET COMPENSATION SURVEY CONDUCTED BY THE OFFICE OF HUMAN RESOURCES THAT REVIEWS THE COMPENSATION OF THE HEADS OF THE LEADING UNIVERSITIES AND CHIEF EXECUTIVE OFFICERS OF SIMILAR ORGANIZATIONS. THERE IS A RECORD OF THE EXECUTIVE COMPENSATION COMMITTEE'S DELIBERATIONS AND DECISIONS. COMPENSATION DECISIONS ARE MADE ANNUALLY FOR OTHER KEY AND HIGH PAID EMPLOYEES BY SENIOR STAFF ON THE BASIS OF COMPARIBILITY DATA. |
| FORM 990, PART VI, SECTION C, LINE 19 | HOW DOCUMENTS ARE MADE AVAILABLE TO THE PUBLIC NAS MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY, AND FINANCIAL STATEMENTS AVAILABLE TO THE PUBLIC UPON REQUEST. THE GOVERNING DOCUMENTS AND ANNUAL FINANCIAL STATEMENTS ARE ALSO AVAILABLE ON THE ORGANIZATION'S WEBSITE. |
| FORM 990, PART XI, LINE 9: | RWBP ACTUARIAL VALUATION ADJ 4,343,854. UNREALIZED GAIN ON DERIVATIVES 2,091,776. UNREALIZED LOSS ON CHARITABLE GIFT ANNUITIES -438,398. |

Additional Data

Return to Form

Software ID:

Software Version:

**SCHEDULE R
(Form 990)**

Related Organizations and Unrelated Partnerships

OMB No. 1545-0047

2022

**Open to Public
Inspection**

- ▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 36, or 37.
- ▶ Attach to Form 990.
- ▶ Go to www.irs.gov/Form990 for instructions and the latest information.

Department of the Treasury
Internal Revenue Service

Name of the organization
NATIONAL ACADEMY OF SCIENCES

Employer identification number

53-0196932

Part I Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

| (a) Name, address, and EIN (if applicable) of disregarded entity | (b) Primary activity | (c) Legal domicile (state or foreign country) | (d) Total income | (e) End-of-year assets | (f) Direct controlling entity |
|---|-------------------------|--|---------------------|---------------------------|----------------------------------|
| (1) NAS TITLE HOLDING LLC 5635 BENT BRANCH ROAD BETHESDA, MD 20816 53-0196932 | TITLE HOLDING | MD | 0 | 75,422,619 | NAS |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Part II Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related tax-exempt organizations during the tax year.

| (a) Name, address, and EIN of related organization | (b) Primary activity | (c) Legal domicile (state or foreign country) | (d) Exempt Code section | (e) Public charity status (if section 501(c)(3)) | (f) Direct controlling entity | (g) Section 512(b)(13) controlled entity? | |
|--|-------------------------|--|----------------------------|---|----------------------------------|--|----|
| | | | | | | Yes | No |
| (1) THE NATIONAL ACADEMIES CORPORATION 100 ACADEMY WAY IRVINE, CA 92617 94-2994279 | SCI. MEETINGS | CA | 501(C)(3) | LINE 12A, I | NAS | Yes | |
| (2) NAS RETIREE WELFARE BENEFIT PLAN TRUST 2101 CONSTITUTION AVENUE NW WASHINGTON, DC 20418 52-6976965 | EMP. BENEFITS | DC | 501(C)(3) | LINE 12A, I | NAS | Yes | |
| (3) NATIONAL ACADEMY OF ENGINEERING FUND 2101 CONSTITUTION AVENUE NW WASHINGTON, DC 20418 23-7284092 | SCI. SUPPORT | DC | 501(C)(3) | LINE 7 | N/A | | No |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Part III Identification of Related Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related organizations treated as a partnership during the tax year.

| (a) Name, address, and EIN of related organization | (b) Primary activity | (c) Legal domicile (state or foreign country) | (d) Direct controlling entity | (e) Predominant income(related, unrelated, excluded from tax under sections 512-514) | (f) Share of total income | (g) Share of end-of-year assets | (h) Disproportionate allocations? | | (i) Code V-UBI amount in box 20 of Schedule K-1 (Form 1065) | (j) General or managing partner? | | (k) Percentage ownership |
|---|-------------------------|--|----------------------------------|---|------------------------------|------------------------------------|--------------------------------------|----|--|-------------------------------------|----|-----------------------------|
| | | | | | | | Yes | No | | Yes | No | |
| | | | | | | | | | | | | |
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Part IV Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34 because it had one or more related organizations treated as a corporation or trust during the tax year.

| (a) Name, address, and EIN of related organization | (b) Primary activity | (c) Legal domicile (state or foreign country) | (d) Direct controlling entity | (e) Type of entity (C corp, S corp, or trust) | (f) Share of total income | (g) Share of end-of-year assets | (h) Percentage ownership | (i) Section 512(b)(13) controlled entity? | |
|---|-------------------------|--|----------------------------------|--|------------------------------|------------------------------------|-----------------------------|--|----|
| | | | | | | | | Yes | No |
| | | | | | | | | | |
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Part V Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

Note. Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule.

1 During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV?

- a** Receipt of **(i)** interest, **(ii)** annuities, **(iii)** royalties, or **(iv)** rent from a controlled entity
- b** Gift, grant, or capital contribution to related organization(s)
- c** Gift, grant, or capital contribution from related organization(s)
- d** Loans or loan guarantees to or for related organization(s)
- e** Loans or loan guarantees by related organization(s)

- f** Dividends from related organization(s)
- g** Sale of assets to related organization(s)
- h** Purchase of assets from related organization(s)
- i** Exchange of assets with related organization(s)
- j** Lease of facilities, equipment, or other assets to related organization(s)

- k** Lease of facilities, equipment, or other assets from related organization(s)
- l** Performance of services or membership or fundraising solicitations for related organization(s)
- m** Performance of services or membership or fundraising solicitations by related organization(s)
- n** Sharing of facilities, equipment, mailing lists, or other assets with related organization(s)
- o** Sharing of paid employees with related organization(s)

- p** Reimbursement paid to related organization(s) for expenses
- q** Reimbursement paid by related organization(s) for expenses

- r** Other transfer of cash or property to related organization(s)
- s** Other transfer of cash or property from related organization(s)

| | Yes | No |
|-----------|-----|----|
| | | |
| 1a | | No |
| 1b | | No |
| 1c | Yes | |
| 1d | | No |
| 1e | | No |
| | | |
| 1f | | No |
| 1g | | No |
| 1h | | No |
| 1i | | No |
| 1j | | No |
| | | |
| 1k | | No |
| 1l | Yes | |
| 1m | | No |
| 1n | Yes | |
| 1o | Yes | |
| | | |
| 1p | | No |
| 1q | Yes | |
| | | |
| 1r | Yes | |
| 1s | | No |

2 If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds.

| (a) Name of related organization | (b) Transaction type (a-s) | (c) Amount involved | (d) Method of determining amount involved |
|---|-------------------------------|------------------------|--|
| (1) THE NATIONAL ACADEMIES CORPORATION | C | 883,371 | COST |
| (2) RETIREE WELFARE BENEFIT PLAN TRUST | Q | 1,510,572 | COST |
| (3) NATIONAL ACADEMY OF ENGINEERING FUND | C | 4,864,400 | COST |
| (4) RETIREE WELFARE BENEFIT PLAN TRUST | R | 3,893,991 | COST |
| | | | |
| | | | |

Part VII Supplemental Information

Provide additional information for responses to questions on Schedule R. See instructions.

Return Reference

Explanation

Schedule R (Form 990) 2021

Additional Data[Return to Form](#)**Software ID:****Software Version:**