

efile GRAPHIC print - DO NOT PROCESS

As Filed Data -

DLN: 93491314026381

Form 990-PF

Department of the Treasury
Internal Revenue Service

Return of Private Foundation
or Section 4947(a)(1) Trust Treated as Private Foundation

Do not enter social security numbers on this form as it may be made public.

Go to www.irs.gov/Form990PF for instructions and the latest information.

OMB No. 1545-0052

2020

Open to Public Inspection

For calendar year 2020, or tax year beginning 01-01-2020, and ending 12-31-2020

Name of foundation
RESEARCH CORPORATION DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT

Number and street (or P.O. box number if mail is not delivered to street address)
4703 EAST CAMP LOWELL DRIVE NO 20

City or town, state or province, country, and ZIP or foreign postal code
TUCSON, AZ 85712

G Check all that apply:

☐ Initial return

☐ Initial return of a former public charity

☐ Final return

☐ Amended return

☐ Address change

☐ Name change

H Check type of organization:

☒ Section 501(c)(3) exempt private foundation

☐ Section 4947(a)(1) nonexempt charitable trust

☐ Other taxable private foundation

I Fair market value of all assets at end of year (from Part II, col. (c), line 16)

\$ 216,769,898

J Accounting method:

☐ Cash

☒ Accrual

☐ Other (specify)

(Part I, column (d) must be on cash basis.)

A Employer identification number
13-1963407

B Telephone number (see instructions)
(520) 571-1111

C If exemption application is pending, check here

D 1. Foreign organizations, check here.....

2. Foreign organizations meeting the 85% test, check here and attach computation ...

E If private foundation status was terminated under section 507(b)(1)(A), check here

F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here

Part I

Analysis of Revenue and Expenses (The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a) (see instructions).)

(a)

Revenue and expenses per books

(b)

Net investment income

(c)

Adjusted net income

(d)

Disbursements for charitable purposes (cash basis only)

Revenue

1

Contributions, gifts, grants, etc., received (attach schedule)

385,655

2

Check if the foundation is not required to attach Sch. B

3

Interest on savings and temporary cash investments

1,992

1,992

1,992

4

Dividends and interest from securities

5,364,657

5,364,657

5,364,657

5a

Gross rents

b

Net rental income or (loss)

6a

Net gain or (loss) from sale of assets not on line 10

-2,054,109

b

Gross sales price for all assets on line 6a

5,552,459

7

Capital gain net income (from Part IV, line 2)

0

8

Net short-term capital gain

910,289

9

Income modifications

10a

Gross sales less returns and allowances

b

Less: Cost of goods sold

c

Gross profit or (loss) (attach schedule)

11

Other income (attach schedule)

826,558

798,407

826,558

12

Total. Add lines 1 through 11

4,524,753

6,165,056

7,103,496

Operating and Administrative Expenses

13

Compensation of officers, directors, trustees, etc.

801,830

150,327

151,005

650,825

14

Other employee salaries and wages

1,056,335

5,475

5,500

1,050,835

15

Pension plans, employee benefits

500,965

7,624

7,658

524,959

16a

Legal fees (attach schedule)

21,702

0

0

28,317

b

Accounting fees (attach schedule)

35,500

17,750

17,750

17,750

c

Other professional fees (attach schedule)

3,892,361

3,872,291

3,889,757

2,604

17

Interest

45,363

0

0

45,363

18

Taxes (attach schedule) (see instructions)

3,448

1,108

0

0

19

Depreciation (attach schedule) and depletion

8,863

0

0

20

Occupancy

224,211

10,487

10,534

202,597

21

Travel, conferences, and meetings

100,782

3,398

3,494

88,273

22

Printing and publications

1,481

0

0

1,481

23

Other expenses (attach schedule)

367,510

0

0

473,320

24

Total operating and administrative expenses.
Add lines 13 through 23

7,060,351

4,068,460

4,085,698

3,086,324

25

Contributions, gifts, grants paid

5,315,405

5,578,196

26

Total expenses and disbursements. Add lines 24 and 25

12,375,756

4,068,460

4,085,698

8,664,520

27

Subtract line 26 from line 12:

a

Excess of revenue over expenses and disbursements

-7,851,003

b

Net investment income (if negative, enter -0-)

2,096,596

c

Adjusted net income (if negative, enter -0-)

3,017,798

For Paperwork Reduction Act Notice, see instructions.

Cat. No. 11289X

Form 990-PF (2020)

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only. (See instructions.)		
		Beginning of year	End of year	
		(a) Book Value	(b) Book Value	(c) Fair Market Value
Assets	1 Cash—non-interest-bearing	4,559,869	3,537,791	3,537,791
	2 Savings and temporary cash investments			
	3 Accounts receivable ▶ _____ Less: allowance for doubtful accounts ▶ _____			
	4 Pledges receivable ▶ _____ Less: allowance for doubtful accounts ▶ _____			
	5 Grants receivable			
	6 Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see instructions)			
	7 Other notes and loans receivable (attach schedule) ▶ _____ Less: allowance for doubtful accounts ▶ _____			
	8 Inventories for sale or use			
	9 Prepaid expenses and deferred charges			
	10a Investments—U.S. and state government obligations (attach schedule)			
	b Investments—corporate stock (attach schedule)	116,567,151	145,273,209	145,273,209
	c Investments—corporate bonds (attach schedule)			
	11 Investments—land, buildings, and equipment: basis ▶ _____ Less: accumulated depreciation (attach schedule) ▶ _____			
	12 Investments—mortgage loans			
	13 Investments—other (attach schedule)	68,636,235	67,767,874	67,767,874
	14 Land, buildings, and equipment: basis ▶ _____ 864,176 Less: accumulated depreciation (attach schedule) ▶ 822,025	51,014	42,151	42,151
15 Other assets (describe ▶ _____)	186,945	148,873	148,873	
16 Total assets (to be completed by all filers—see the instructions. Also, see page 1, item I)	190,001,214	216,769,898	216,769,898	
Liabilities	17 Accounts payable and accrued expenses	147,732	41,921	
	18 Grants payable	505,000	340,000	
	19 Deferred revenue			
	20 Loans from officers, directors, trustees, and other disqualified persons			
	21 Mortgages and other notes payable (attach schedule)			
	22 Other liabilities (describe ▶ _____)	865,622	827,355	
	23 Total liabilities (add lines 17 through 22)	1,518,354	1,209,276	
Net Assets or Fund Balances	Foundations that follow FASB ASC 958, check here ▶ ☒ and complete lines 24, 25, 29 and 30.			
	24 Net assets without donor restrictions	188,482,860	215,560,622	
	25 Net assets with donor restrictions			
	Foundations that do not follow FASB ASC 958, check here ▶ ☐ and complete lines 26 through 30.			
	26 Capital stock, trust principal, or current funds			
	27 Paid-in or capital surplus, or land, bldg., and equipment fund			
	28 Retained earnings, accumulated income, endowment, or other funds			
	29 Total net assets or fund balances (see instructions)	188,482,860	215,560,622	
30 Total liabilities and net assets/fund balances (see instructions) .	190,001,214	216,769,898		

Part III Analysis of Changes in Net Assets or Fund Balances		
1 Total net assets or fund balances at beginning of year—Part II, column (a), line 29 (must agree with end-of-year figure reported on prior year's return)	1	188,482,860
2 Enter amount from Part I, line 27a	2	-7,851,003
3 Other increases not included in line 2 (itemize) ▶ _____	3	34,928,765
4 Add lines 1, 2, and 3	4	215,560,622
5 Decreases not included in line 2 (itemize) ▶ _____	5	0
6 Total net assets or fund balances at end of year (line 4 minus line 5)—Part II, column (b), line 29 .	6	215,560,622

Part IV Capital Gains and Losses for Tax on Investment Income

(a) List and describe the kind(s) of property sold (e.g., real estate, 2-story brick warehouse; or common stock, 200 shs. MLC Co.)		(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
1a See Additional Data Table				
b				
c				
d				
e				

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
a See Additional Data Table			
b			
c			
d			
e			

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col.(h))
(i) F.M.V. as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	
a See Additional Data Table			
b			
c			
d			
e			

2 Capital gain net income or (net capital loss) $\left\{ \begin{array}{l} \text{If gain, also enter in Part I, line 7} \\ \text{If (loss), enter -0- in Part I, line 7} \end{array} \right\}$		2	-2,054,109
3 Net short-term capital gain or (loss) as defined in sections 1222(5) and (6): If gain, also enter in Part I, line 8, column (c) (see instructions). If (loss), enter -0- in Part I, line 8		3	910,289

Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income**SECTION 4940(e) REPEALED ON DECEMBER 20, 2019 - DO NOT COMPLETE**

1 Reserved	
-------------------	--

(a) Reserved	(b) Reserved	(c) Reserved	(d) Reserved

2 Reserved	2	
3 Reserved.	3	
4 Reserved	4	
5 Reserved	5	
6 Reserved	6	
7 Reserved	7	
8 Reserved ,	8	

Part VI Excise Tax Based on Investment Income (Section 4940(a), 4940(b), 4940(e), or 4948—see instructions)

1a	Exempt operating foundations described in section 4940(d)(2), check here ☒ and enter "N/A" on line 1. Date of ruling or determination letter: <u>1987-06-25</u> (attach copy of letter if necessary—see instructions)		
b	Reserved.	1	N/A
c	All other domestic foundations enter 1.39% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b)		
2	Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	2	
3	Add lines 1 and 2.	3	
4	Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)	4	
5	Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-.	5	0
6	Credits/Payments:		
a	2020 estimated tax payments and 2019 overpayment credited to 2020	6a	0
b	Exempt foreign organizations—tax withheld at source	6b	0
c	Tax paid with application for extension of time to file (Form 8868)	6c	0
d	Backup withholding erroneously withheld	6d	0
7	Total credits and payments. Add lines 6a through 6d.	7	0
8	Enter any penalty for underpayment of estimated tax. Check here ☐ if Form 2220 is attached.	8	0
9	Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed .	9	0
10	Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid .	10	
11	Enter the amount of line 10 to be: Credited to 2021 estimated tax ☐ Refunded ☐	11	

Part VII-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?	1a	No
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes? (see Instructions for definition). <i>If the answer is "Yes" to 1a or 1b, attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities.</i>	1b	No
c Did the foundation file Form 1120-POL for this year?.	1c	No
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation. \$ <u>0</u> (2) On foundation managers. \$ <u>0</u>		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. \$ <u>0</u>		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? <i>If "Yes," attach a detailed description of the activities.</i>	2	No
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? <i>If "Yes," attach a conformed copy of the changes</i>	3	No
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?.	4a	Yes
b If "Yes," has it filed a tax return on Form 990-T for this year?.	4b	Yes
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? <i>If "Yes," attach the statement required by General Instruction T.</i>	5	No
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either: • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	6	Yes
7 Did the foundation have at least \$5,000 in assets at any time during the year? <i>If "Yes," complete Part II, col. (c), and Part XV.</i>	7	Yes
8a Enter the states to which the foundation reports or with which it is registered (see instructions) AL, AZ, CA, NY		
b If the answer is "Yes" to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by General Instruction G? <i>If "No," attach explanation.</i>	8b	No
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2020 or the taxable year beginning in 2020? See the instructions for Part XIV. <i>If "Yes," complete Part XIV</i>	9	Yes
10 Did any persons become substantial contributors during the tax year? <i>If "Yes," attach a schedule listing their names and addresses.</i>	10	No

Part VII-A Statements Regarding Activities (continued)

11	At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If "Yes," attach schedule. See instructions.	11		No
12	Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If "Yes," attach statement. See instructions	12		No
13	Did the foundation comply with the public inspection requirements for its annual returns and exemption application? Website address ► <u>WWW.RESCORP.ORG</u>	13	Yes	
14	The books are in care of ► <u>DANIEL GASCH CFOVP</u> Telephone no. ► <u>(520) 784-7809</u>			

Located at ► 4703 EAST CAMP LOWELL DRIVE NO 201 TUCSON AZZIP+4 ► 85712

15	Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of Form 1041 —check here ► ☐			
	and enter the amount of tax-exempt interest received or accrued during the year ► 15			
16	At any time during calendar year 2020, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country?	16	Yes	No
	See the instructions for exceptions and filing requirements for FinCEN Form 114. If "Yes", enter the name of the foreign country ►			

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required**File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.**

		Yes	No
1a	During the year did the foundation (either directly or indirectly):		
	(1) Engage in the sale or exchange, or leasing of property with a disqualified person? ☐ Yes ☒ No		
	(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person? ☐ Yes ☒ No		
	(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person? ☐ Yes ☒ No		
	(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person? ☒ Yes ☐ No		
	(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)? ☐ Yes ☒ No		
	(6) Agree to pay money or property to a government official? (Exception. Check "No" if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days.) ☐ Yes ☒ No		
b	If any answer is "Yes" to 1a(1)–(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance? See instructions	1b	No
	Organizations relying on a current notice regarding disaster assistance check here. ► ☐		
c	Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2020?	1c	No
2	Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5)):		
a	At the end of tax year 2020, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2020? ☐ Yes ☒ No If "Yes," list the years ► 20____, 20____, 20____, 20____		
b	Are there any years listed in 2a for which the foundation is not applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to all years listed, answer "No" and attach statement—see instructions.)	2b	
c	If the provisions of section 4942(a)(2) are being applied to any of the years listed in 2a, list the years here. ► 20____, 20____, 20____, 20____		
3a	Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year? ☐ Yes ☒ No		
b	If "Yes," did it have excess business holdings in 2020 as a result of (1) any purchase by the foundation or disqualified persons after May 26, 1969; (2) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest; or (3) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Schedule C, Form 4720, to determine if the foundation had excess business holdings in 2020.)	3b	
4a	Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?	4a	No
b	Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2020?	4b	No

Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required (continued)

5a	During the year did the foundation pay or incur any amount to:		Yes	No
(1)	Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?	☐ Yes ☒ No		
(2)	Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?	☐ Yes ☒ No		
(3)	Provide a grant to an individual for travel, study, or other similar purposes?	☐ Yes ☒ No		
(4)	Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? See instructions.	☐ Yes ☒ No		
(5)	Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?	☐ Yes ☒ No		
b	If any answer is "Yes" to 5a(1)–(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance? See instructions.		5b	
	Organizations relying on a current notice regarding disaster assistance check here.	☐		
c	If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant? If "Yes," attach the statement required by Regulations section 53.4945–5(d).	☐ Yes ☐ No		
6a	Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?	☐ Yes ☒ No	6b	No
b	Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract? If "Yes" to 6b, file Form 8870.			
7a	At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction?	☐ Yes ☒ No	7b	
b	If "Yes", did the foundation receive any proceeds or have any net income attributable to the transaction?			
8	Is the foundation subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment during the year?	☐ Yes ☒ No		

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors

1 List all officers, directors, trustees, foundation managers and their compensation. See instructions				
(a) Name and address	(b) Title, and average hours per week devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
See Additional Data Table				
2 Compensation of five highest-paid employees (other than those included on line 1—see instructions). If none, enter "NONE."				
(a) Name and address of each employee paid more than \$50,000	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
DR RICHARD WIENER	SENIOR PROGRAM	177,000	52,293	17,923
4703 E CAMP LOWELL 201 TUCSON, AZ 85712	DIREC 40.00			
DR SILVIA RONCO	SENIOR PROGRAM	177,000	41,144	18,013
4703 E CAMP LOWELL 201 TUCSON, AZ 85712	DIREC 40.00			
DR ANDREW FEIG	PROGRAM DIRECTOR	146,500	30,062	14,650
4703 E CAMP LOWELL 201 TUCSON, AZ 85712	40.00			
MRS JENNIFER BROWN	DIRECTOR OF FINANCE	110,000	29,726	10,185
4703 E CAMP LOWELL 201 TUCSON, AZ 85712	40.00			
MR THOMAS GOODENOW	DIRECTOR OF IT SERVI	90,750	35,290	9,075
4703 E CAMP LOWELL 201 TUCSON, AZ 85712	40.00			
Total number of other employees paid over \$50,000.				3

Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors (continued)

3 Five highest-paid independent contractors for professional services (see instructions). If none, enter "NONE".		
(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
TCI - CITCO FUND SERVICES	INVESTMENT MANAGEMENT	985,861
CUSTOM HOUSE PLAZA BLOCK 6 DUBLIN EI		
ANGELO GORDON & CO		
245 PARK AVENUE NEW YORK, NY 10167	INVESTMENT MANAGEMENT	952,964
COATUE OFFSHORE FUND LTD		
THE OBSERVATORY 7-11 SIRE JOHN ROGERSONS QUAY DUBLIN EI		
ALKEON CAPITAL MANAGEMENT LLC	INVESTMENT MANAGEMENT	397,303
350 MADISON AVENUE 20TH FLOOR NEW YORK, NY 10017		
SANDS CAPITAL MANAGEMENT		
PO BOX 219009 KANSAS CITY, MO 64121	INVESTMENT MANAGEMENT	383,711
Total number of others receiving over \$50,000 for professional services. ▶		2

Part IX-A Summary of Direct Charitable Activities

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
1 THE COTTRELL SCHOLAR AWARD DEVELOPS OUTSTANDING CHEMISTRY, PHYSICS AND ASTRONOMY TEACHER-SCHOLARS AT COLLEGES AND UNIVERSITIES WHO ARE RECOGNIZED BY THEIR SCIENTIFIC COMMUNITIES FOR THE QUALITY AND INNOVATION OF THEIR RESEARCH PROGRAMS AND THEIR ACADEMIC LEADERSHIP SKILLS. THIS AWARD PROVIDES ENTRY INTO A NATIONAL COMMUNITY OF OUTSTANDING SCHOLAR-EDUCATORS WHO PRODUCE SIGNIFICANT RESEARCH AND EDUCATION OUTCOMES. 25 COTTRELL SCHOLAR AWARDS AND 3 COLLABORATIVE AWARDS WERE GIVEN IN 2020.	3,886,588
2 THE COVID-19 INITIATIVE SUPPORTED CUTTING-EDGE RESEARCH INTO THE DETECTION AND MITIGATION OF THE CURRENT AND FUTURE EPIDEMICS. IN 2020, SEVEN TEAMS OF SCIENTISTS WERE AWARDED PROJECT FUNDING.	2,623,292
3 SCIALOG SUPPORTS RESEARCH, INTENSIVE DIALOG AND COMMUNITY BUILDING TO ADDRESS SCIENTIFIC CHALLENGES OF GLOBAL SIGNIFICANCE. WITHIN EACH MULTI-YEAR INITIATIVE, SCIALOG FELLOWS COLLABORATE IN HIGH-RISK DISCOVERY RESEARCH ON UNTESTED IDEAS AND COMMUNICATE THEIR PROGRESS IN ANNUAL CLOSED CONFERENCES. THROUGH THE GIVE-AND-TAKE OF COMMUNITY BUILDING, IT IS THE FOUNDATION'S HOPE THAT SCIALOG FELLOWS GROW BETTER EQUIPPED TO TACKLE EVER MORE CHALLENGING MULTIDISCIPLINARY PROBLEMS. SCIALOG IS INTENDED TO: 1) SUPPORT EARLY CAREER FACULTY TO EXPAND RESEARCH IN A FOCUSED AREA OF HIGH SCIENTIFIC IMPORTANCE; 2) ENCOURAGE SCIENTISTS TO FORM MULTIDISCIPLINARY TEAMS TO TACKLE THESE CRITICAL CHALLENGES, AND; 3) HELP TRANSITION AWARDEES TO OBTAIN FURTHER FUNDING FOR THEIR INNOVATIVE IDEAS. IN 2020 ONE SCIALOG CONFERENCE, NEGATIVE EMISSIONS SCIENCE, WAS HELD AT WHICH GRANT PROPOSALS WERE RECEIVED FOR THE AWARDS MADE.	769,545
4 RCSA AWARDED FUNDS TO 9 COTTRELL SCHOLARS TO SUPPORT THE WORK OF POSTDOCTORAL FELLOWS WHOSE PLANS TO START INDEPENDENT ACADEMIC OR RESEARCH CAREERS THIS YEAR WERE DELAYED OR DERAILED DUE TO INSTITUTIONAL HIRING FREEZES.	466,391

Part IX-B Summary of Program-Related Investments (see instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2.	Amount
1	
2	
All other program-related investments. See instructions.	
3	
Total. Add lines 1 through 3 ►	0

Part X Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes:		
a	Average monthly fair market value of securities.	1a	146,274,445
b	Average of monthly cash balances.	1b	2,651,082
c	Fair market value of all other assets (see instructions).	1c	40,637,741
d	Total (add lines 1a, b, and c).	1d	189,563,268
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation).	1e	0
2	Acquisition indebtedness applicable to line 1 assets.	2	0
3	Subtract line 2 from line 1d.	3	189,563,268
4	Cash deemed held for charitable activities. Enter 1 1/2% of line 3 (for greater amount, see instructions).	4	2,843,449
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4	5	186,719,819
6	Minimum investment return. Enter 5% of line 5.	6	9,335,991

Part XI Distributable Amount (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations check here ☒ and do not complete this part.)

1	Minimum investment return from Part X, line 6.	1	
2a	Tax on investment income for 2020 from Part VI, line 5.	2a	
b	Income tax for 2020. (This does not include the tax from Part VI.).	2b	
c	Add lines 2a and 2b.	2c	
3	Distributable amount before adjustments. Subtract line 2c from line 1.	3	
4	Recoveries of amounts treated as qualifying distributions.	4	
5	Add lines 3 and 4.	5	
6	Deduction from distributable amount (see instructions).	6	
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1.	7	

Part XII Qualifying Distributions (see instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes:		
a	Expenses, contributions, gifts, etc.—total from Part I, column (d), line 26.	1a	8,664,520
b	Program-related investments—total from Part IX-B.	1b	0
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes.	2	
3	Amounts set aside for specific charitable projects that satisfy the:		
a	Suitability test (prior IRS approval required).	3a	
b	Cash distribution test (attach the required schedule).	3b	
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part V, line 8, and Part XIII, line 4	4	8,664,520
5	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b. See instructions.	5	0
6	Adjusted qualifying distributions. Subtract line 5 from line 4.	6	8,664,520

Note: The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.

Part XIII Undistributed Income (see instructions)

	(a) Corpus	(b) Years prior to 2019	(c) 2019	(d) 2020
1 Distributable amount for 2020 from Part XI, line 7				
2 Undistributed income, if any, as of the end of 2020:				
a Enter amount for 2019 only.				
b Total for prior years: 20____, 20____, 20____				
3 Excess distributions carryover, if any, to 2020:				
a From 2015.				
b From 2016.				
c From 2017.				
d From 2018.				
e From 2019.				
f Total of lines 3a through e.				
4 Qualifying distributions for 2020 from Part XII, line 4: ► \$ _____				
a Applied to 2019, but not more than line 2a				
b Applied to undistributed income of prior years (Election required—see instructions).				
c Treated as distributions out of corpus (Election required—see instructions).				
d Applied to 2020 distributable amount.				
e Remaining amount distributed out of corpus				
5 Excess distributions carryover applied to 2020. (If an amount appears in column (d), the same amount must be shown in column (a).)				
6 Enter the net total of each column as indicated below:				
a Corpus. Add lines 3f, 4c, and 4e. Subtract line 5				
b Prior years' undistributed income. Subtract line 4b from line 2b.				
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed.				
d Subtract line 6c from line 6b. Taxable amount—see instructions.				
e Undistributed income for 2019. Subtract line 4a from line 2a. Taxable amount—see instructions.				
f Undistributed income for 2021. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2020.				
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required - see instructions).				
8 Excess distributions carryover from 2015 not applied on line 5 or line 7 (see instructions).				
9 Excess distributions carryover to 2021. Subtract lines 7 and 8 from line 6a.				
10 Analysis of line 9:				
a Excess from 2016.				
b Excess from 2017.				
c Excess from 2018.				
d Excess from 2019.				
e Excess from 2020.				

Part XIV Private Operating Foundations (see instructions and Part VII-A, question 9)

1 If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2020, enter the date of the ruling. **1987-06-25**

b Check box to indicate whether the organization is a private operating foundation described in section ☒ 4942(j)(3) or ☐ 4942(j)(5)

	Tax year	Prior 3 years			(e) Total
	(a) 2020	(b) 2019	(c) 2018	(d) 2017	
2a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part X for each year listed	3,017,798	2,026,263	5,813,810	3,149,667	14,007,538
b 85% of line 2a	2,565,128	1,722,324	4,941,739	2,677,217	11,906,407
c Qualifying distributions from Part XII, line 4 for each year listed	8,664,520	7,959,169	7,634,742	7,086,153	31,344,584
d Amounts included in line 2c not used directly for active conduct of exempt activities	13,596	11,270	16,609	34,865	76,340
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c	8,650,924	7,947,899	7,618,133	7,051,288	31,268,244
3 Complete 3a, b, or c for the alternative test relied upon:					
a "Assets" alternative test—enter:					
(1) Value of all assets	216,769,898	190,001,214	165,496,614	174,518,565	746,786,291
(2) Value of assets qualifying under section 4942(j)(3)(B)(i)					0
b "Endowment" alternative test— enter 2/3 of minimum investment return shown in Part X, line 6 for each year listed.	6,223,994	5,884,569	5,729,042	5,422,735	23,260,340
c "Support" alternative test—enter:					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)					0
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii).					0
(3) Largest amount of support from an exempt organization					0
(4) Gross investment income					0

Part XV Supplementary Information (Complete this part only if the foundation had \$5,000 or more in assets at any time during the year—see instructions.)

1 Information Regarding Foundation Managers:

a List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000). (See section 507(d)(2).)

b List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest.

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here ☐ if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc. to individuals or organizations under other conditions, complete items 2a, b, c, and d. See instructions

a The name, address, and telephone number or e-mail address of the person to whom applications should be addressed:

DANIEL GASCH
4703 E CAMP LOWELL SUITE 201
TUCSON, AZ 85712
(520) 571-1111

b The form in which applications should be submitted and information and materials they should include:

APPLICATIONS FOR RCSA GRANT PROGRAMS ARE SUBMITTED VIA OUR BLACKBAUD GRANTMAKING SYSTEM. APPLICANTS CREATE AN ACCOUNT IN THE SYSTEM, COMPLETE FORM FIELDS WITH CONTACT INFORMATION FOR THE APPLICANT AND INSTITUTION, AND SUBMIT THE COMPLETED FIELDS ALONG WITH A PDF OF THE PROPOSAL. PROPOSALS GENERALLY INCLUDE A DESCRIPTION OF THE PROJECT AND A LIST OF SCIENTIFIC REFERENCES. CERTAIN GRANT PROGRAMS WILL ALSO REQUIRE LETTERS OF RECOMMENDATION, COLLABORATION, OR SUPPORT, PROFESSIONAL INFORMATION TO DEMONSTRATE CAPABILITY TO COMPLETE THE PROPOSED PROJECT, AND EVIDENCE OF INSTITUTIONAL APPROVAL OF THE PROPOSED PROJECT.

c Any submission deadlines:

NONE

d Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors:

INDIVIDUALS PERFORMING SCIENTIFIC RESEARCH AT ACADEMIC INSTITUTIONS OF ALL LEVELS.

Part XV **Supplementary Information** (continued)**3 Grants and Contributions Paid During the Year or Approved for Future Payment**

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i> See Additional Data Table				
Total ▶ 3a				5,578,196
b <i>Approved for future payment</i> See Additional Data Table				
Total ▶ 3b				340,000

Unrelated business income		Excluded by section 512, 513, or 514		(e) Related or exempt function income (See instructions.)
(a) Business code	(b) Amount	(c) Exclusion code	(d) Amount	
Enter gross amounts unless otherwise indicated.				
1 Program service revenue:				
a _____				
b _____				
c _____				
d _____				
e _____				
f _____				
g Fees and contracts from government agencies				
2 Membership dues and assessments. . . .				
3 Interest on savings and temporary cash investments				
		14	1,992	
4 Dividends and interest from securities. . . .				
		14	5,364,657	
5 Net rental income or (loss) from real estate:				
a Debt-financed property.				
b Not debt-financed property.				
6 Net rental income or (loss) from personal property				
7 Other investment income.				
8 Gain or (loss) from sales of assets other than inventory				
		18	-2,054,109	
9 Net income or (loss) from special events:				
10 Gross profit or (loss) from sales of inventory				
11 Other revenue:				
a OTHER INCOME (LOSS) FROM K-1S	900099	28,151	14	798,407
b _____				
c _____				
d _____				
e _____				
12 Subtotal. Add columns (b), (d), and (e). . .				
	28,151		4,110,947	0
13 Total. Add line 12, columns (b), (d), and (e).				
				4,139,098

[illegible]

Information Regarding Transfers To and Transactions and Relationships With Noncharitable Exempt Organizations

1 Did the organization directly or indirectly engage in any of the following with any other organization described in section 501(c) (other than section 501(c)(3) organizations) or in section 527, relating to political organizations?			Yes	No
a Transfers from the reporting foundation to a noncharitable exempt organization of:				
(1) Cash.		1a(1)		No
(2) Other assets.		1a(2)		No
b Other transactions:				
(1) Sales of assets to a noncharitable exempt organization.		1b(1)		No
(2) Purchases of assets from a noncharitable exempt organization.		1b(2)		No
(3) Rental of facilities, equipment, or other assets.		1b(3)		No
(4) Reimbursement arrangements.		1b(4)		No
(5) Loans or loan guarantees.		1b(5)		No
(6) Performance of services or membership or fundraising solicitations.		1b(6)		No
c Sharing of facilities, equipment, mailing lists, other assets, or paid employees.		1c		No
d If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation. If the foundation received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received.				

[illegible]

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) (other than section 501(c)(3)) or in section 527? ☐ Yes ☒ No

b If "Yes," complete the following schedule.

(a) Name of organization	(b) Type of organization	(c) Description of relationship

Sign Here	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. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.		
	*****	2021-11-09	*****
	_____ Signature of officer or trustee	_____ Date	_____ Title

May the IRS discuss this return with the preparer shown below
 (see instr.) ☒ **Yes** ☐ **No**

Paid Preparer Use Only	Print/Type preparer's name	Preparer's Signature	Date	Check if self-employed ☐	PTIN
	MONICA A VERA CPA		2021-11-09		P01456278
	Firm's name ▶ BEACHFLEISCHMAN PC				Firm's EIN ▶ 86-0683059
	Firm's address ▶ 1985 E RIVER ROAD SUITE 201 TUCSON, AZ 85718				Phone no. (520) 321-4600

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns a - d

List and describe the kind(s) of property sold (e.g., real estate, (a) 2-story brick warehouse; or common stock, 200 shs. MLC Co.)	(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
AG CAPITAL RECOVERY PARTNERS VI LP	P		
AG REALTY FUND VI LP	P		
AG SUPER FUND LP	P		
AG SUPER FUND LP	P		
AG CS HOLDINGS FUND LP	P		
AG SF (L) LP	P		
AG SF (L) LP	P		
AG SECURITIZED RECOVERY HOLDINGS LP	P		
VANGUARD	P		
VANGUARD	P		

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns e - h

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
29			29
77			77
606,974			606,974
		1,690,467	-1,690,467
212			212
297,912			297,912
		915,999	-915,999
499,925		5,000,000	-4,500,075
5,476			5,476
248,905			248,905

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns i - l

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col.(h))
(i) F.M.V. as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	
			29
			77
			606,974
			-1,690,467
			212
			297,912
			-915,999
			-4,500,075
			5,476
			248,905

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns a - d

List and describe the kind(s) of property sold (e.g., real estate, (a) 2-story brick warehouse; or common stock, 200 shs. MLC Co.)	(b) How acquired P—Purchase D—Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
VANGUARD	P		
SAND CAPITAL GLOBAL	P		
FEG POF IV LP	P		
FEG POF IV LP	P		

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns e - h

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)
1,990,554			1,990,554
1,902,395			1,902,395
		73	-73
		29	-29

Form 990PF Part IV - Capital Gains and Losses for Tax on Investment Income - Columns i - l

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col.(h))
(i) F.M.V. as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	
			1,990,554
			1,902,395
			-73
			-29

Form 990PF Part VIII Line 1 - List all officers, directors, trustees, foundation managers and their compensation

(a) Name and address	Title, and average hours per week (b) devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	Expense account, (e) other allowances
DR DANIEL I LINZER	CEO/PRESIDENT AND BOARD MEMBER 38.00	378,000	61,313	37,800
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
MR DANIEL GASCH	CFO/VICE PRESIDENT 38.00	238,500	61,996	24,221
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR EUGENE FLOOD	TREASURER AND BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR JOAN WOODARD	SECRETARY AND BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR LARS BILDSTEN	CHAIR OF THE BOARD 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
MR G SCOTT CLEMONS	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
MS DANIELLE DANA	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
MR JAMES DENAUT	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR PETER DORHOUT	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR NANCY HAEGEL	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR BRENT IVERSON	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
MS KRISTINE LIPSCOMB	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				
DR CATHERINE MURPHY	BOARD MEMBER 2.00	0	0	0
4703 E CAMP LOWELL 201 TUCSON, AZ 85712				

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a Paid during the year				
AMERICAN CHEMICAL SOCIETY 1155 SIXTEENTH STREET NW WASHINGTON, DC 20036	NONE	PC	GENERAL SUPPORT	5,000
AMERICAN PHYSICAL SOCIETY ONE PHYSICS ELLIPSE COLLEGE PARK, MD 20740	NONE	PC	APS PRIZE TO A FACULTY MEMBER FOR RESEARCH AT AN UNDERGRADUATE INSTITUTION	10,000
ARIZONA PUBLIC MEDIA PO BOX 210067 TUCSON, AZ 85721	NONE	PC	GENERAL SUPPORT	25,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
ARIZONA STATE UNIVERSITY - TEMPE CAMPUS 975 S MYRTLE AVE TEMPE, AZ 85281	NONE	GOV	MODULATING RIBOSOMAL FRAMESHIFTS TO INTERFERE WITH VIRAL PROTEIN TRANSLATION	55,000
BROWN UNIVERSITY 324 BROOK STREET BOX H PROVIDENCE, RI 02912	NONE	NC	ADVANCING CHEMISTRY THROUGH DATA SCIENCE: CATALYST DESIGN VIA DATA-ENABLED QUANTUM CHEMISTRY AND INTEGRATING DATA SCIENCE INTO THE CHEMISTRY CURRICULUM	100,000
BUCKNELL UNIVERSITY ONE DENT DRIVE LEWISBURG, PA 17837	NONE	PC	INSTRUMENTATION FOR BUCKNELL'S BIOPHYSICS PROGRAM	14,100
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 E CALIFORNIA BLVD PASADENA, CA 91125	NONE	NC	THE ADVANCEMENT OF SMALL MOLECULE ELECTRON CRYSTALLOGRAPHY VIA MICROED: LEADING THE TRANSITION FROM PROOFS OF CONCEPT TO GLOBAL ADOPTION	50,000
CALIFORNIA STATE UNIVERSITY NORTHRIDGE 18111 NORDHOFF STREET NORTHRIDGE, CA 91330	NONE	GOV	DATA-DRIVEN SOLUBILITY MODEL DEVELOPMENT OF CONCENTRATED NON-AQUEOUS ELECTROLYTES	100,000
CAMILLE AND HENRY DREYFUS FOUNDATION 555 MADISON AVENUE SUITE 1305 NEW YORK, NY 10022	NONE	PF	CHEMISTRY SHORTS	10,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
CHAPMAN UNIVERSITY ONE UNIVERSITY DRIVE ORANGE COUNTY, CA 92866	NONE	PC	CONSTRUCTING A BETTER NITROGENASE BY UNCOVERING PROTEIN-PROTEIN INTERACTIONS THAT PROTECT THE ENZYME AND EXPAND ITS CHEMISTRY	100,000
CHAPMAN UNIVERSITY ONE UNIVERSITY DRIVE ORANGE COUNTY, CA 92866	NONE	PC	A REQUEST TO FUND THE PURCHASE OF A FERMENTER, A VESSEL FOR LEARNING AND KNOWLEDGE CREATION	10,000
COE COLLEGE1220 1ST AVE NE CEDAR RAPIDS, IA 52402	NONE	PC	PURCHASE OF A VICKERS MICROINDENTER FOR GLASS STUDIES	13,250
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
TRUSTEES OF COLUMBIA UNIVERSITY 2960 BROADWAY NEW YORK, NY 10027	NONE	NC	TO B OR NOT TO B: THE BIRTH AND DEATH OF MAGNETIC FIELDS IN THE UNIVERSE	100,000
TRUSTEES OF COLUMBIA UNIVERSITY 2960 BROADWAY NEW YORK, NY 10027	NONE	NC	A POROSITY-FREE SODIUM GLASS ELECTROLYTE FORMED AT ROOM TEMPERATURE: INTEGRATED EXPERIMENTAL AND THEORETICAL APPROACH	55,000
TRUSTEES OF COLUMBIA UNIVERSITY 2960 BROADWAY NEW YORK, NY 10027	NONE	NC	PHOTON UPCONVERSION BIOMATERIALS FOR LIGHT-ACTIVATED TISSUE ENGINEERING	75,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a <i>Paid during the year</i>				
TRUSTEES OF COLUMBIA UNIVERSITY 2960 BROADWAY NEW YORK, NY 10027	NONE	NC	UNVEILING PARTICLE ENERGIZATION IN ASTROPHYSICAL PLASMAS	68,750
CORNELL UNIVERSITY HOLLISTER HALL ROOM 220 ITHACA, NY 14853	NONE	PC	NEW CATALYTIC METHODS FOR ENANTIOSELECTIVE ELECTROSYNTHESIS AND INTRODUCING ELECTROSYNTHESIS TO COLLEGE AND GRADUATE CURRICULA	100,000
DARTMOUTH COLLEGE 5 ALLEN STREET SUITE 250 HANOVER, NH 03755	NONE	NC	SEEING IS BELIEVING: ENHANCING THE VISUALIZATION OF ATOMS, MOLECULES, AND MATERIALS USING AUGMENTED AND VIRTUAL REALITY	25,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
DAVIDSON COLLEGE405 N MAIN ST DAVIDSON, NC 28035	NONE	PC	GLYCOMIMETICS FOR INHIBITING SARS-COV-2 ENTRY	55,000
DUKE UNIVERSITYPO BOX 90586 DURHAM, NC 27708	NONE	PC	TARGETING THE SARS-COV-2 FRAMESHIFT SITE PSEUDOKNOT	55,000
THE ELECTROCHEMICAL SOCIETY 65 S MAIN STREET BLDG D PENNINGTON, NJ 08534	NONE	PC	GENERAL SUPPORT	2,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
FLORIDA STATE UNIVERSITY 600 W COLLEGE AVE TALLAHASSEE, FL 32306	NONE	GOV	SOLID ELECTROLYTES WITH DUAL LI- AND F-ION CONDUCTIVITY TO OVERCOME THE TYRANNY OF GRAVIMETRIC CAPACITY	55,000
FURMAN UNIVERSITY 3300 POINSETT HIGHWAY GREENVILLE, SC 29613	NONE	PC	ACQUISITION OF COMPUTING NODES TO SUPPORT EXPERIMENTAL RESEARCH AT FURMAN UNIVERSITY	13,300
GEORGIA INSTITUTE OF TECHNOLOGY 901 ATLANTIC AVENUE ATLANTA, GA 30332	NONE	PC	KNOTTY KNITS: USING TOPOLOGICAL CONSTRAINTS TO PROGRAM GEOMETRY AND ELASTIC RESPONSE IN KNITTED TEXTILES WITH LATTICE DEFECTS	100,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
HARVEY MUDD COLLEGE 301 PLATT BLVD CLAREMOUNT, CA 91711	NONE	PC	ACS AWARD FOR RESEARCH AT AN UNDERGRADUATE INSTITUTION	5,000
HAVERFORD COLLEGE 370 LANCASTER AVENUE HAVERFORD, PA 19041	NONE	PC	A NEW DYNAMIC LIGHT SCATTERING INSTRUMENT AT HAVERFORD COLLEGE	20,000
HOPE COLLEGE141 E 12TH STREET HOLLAND, MI 49423	NONE	PC	INTO THE FUTURE - UPDATING A GC AND GC/MS INSTRUMENTATION SUITE AT HOPE COLLEGE TO EXTEND INSTRUMENT LIFE AND IMPROVE NETWORK SECURITY	12,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
HUMBOLDT STATE UNIVERSITY ONE HARPST STREET ARCATA, CA 95521	NONE	GOV	SCANDIUM AND IRON: PARALLELS IN CHEMICAL REACTIVITY, AND REDUCING THE OPPORTUNITY GAP IN THE HSU CHEMISTRY DEPARTMENT AND BEYOND	100,000
INDIANA UNIVERSITY AT SOUTH BEND 1700 E MISHAWAKA AVE SOUTH BEND, IN 46615	NONE	GOV	SURFACE PLASMON RESONANCE (SPR) FOR ANALYSIS OF BIOMOLECULAR AND SURFACE INTERACTIONS	10,000
IOWA STATE UNIVERSITY 2180 VETERINARY MEDICINE AMES, IA 50011	NONE	GOV	PROBING FRACTIONALIZATION AND ENTANGLEMENT IN QUANTUM SPIN LIQUIDS: THEORY OF TWO-DIMENSIONAL SPECTROSCOPY	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
IOWA STATE UNIVERSITY 2180 VETERINARY MEDICINE AMES, IA 50011	NONE	GOV	ELECTRIC FIELD-DRIVEN ANTIGEN ENRICHMENT TO ACHIEVE DETECTION OF SARS-COV-2 NUCLEOCAPSID PROTEIN IN URINE AT THE POINT-OF-NEED	55,000
JOHNS HOPKINS UNIVERSITY 3400 N CHARLES STREET BALTIMORE, MD 21218	NONE	NC	MODULATING RIBOSOMAL FRAMESHIFTS TO INTERFERE WITH VIRAL PROTEIN TRANSLATION	55,000
LOYOLA MARYMOUNT UNIVERSITY ONE LMU DRIVE SUITE 2200 LOS ANGELES, CA 90045	NONE	PC	TARGETING THE SARS-COV-2 FRAMESHIFT SITE PSEUDOKNOT	55,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
MCGILL UNIVERSITY 845 SHERBROOKE STREET WEST MONTREAL CA	NONE	NC	DNA HYDROGELS PROMOTED BY SMALL MOLECULES: HIGHLY SCALABLE SYNTHESIS AND STIMULI-RESPONSIVE APPLICATIONS IN TISSUE REGENERATION	50,000
MICHIGAN STATE UNIVERSITY 567 WILSON RD RM 2201 EAST LANSING, MI 48824	NONE	GOV	UNVEILING THE THREE-DIMENSIONAL STRUCTURE OF NUCLEONS	100,000
MONTANA STATE UNIVERSITY PO BOX 172190 BOZEMAN, MT 59717	NONE	GOV	COMBINED EXPERIMENTAL AND COMPUTATIONAL APPROACH TO IMPROVING NICKEL AND PALLADIUM-CATALYZED CROSS-COUPPLINGS	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
MONTCLAIR STATE UNIVERSITY ONE NORMAL AVENUE MONTCLAIR, NJ 07043	NONE	GOV	NEUROTRANSMITTER DETECTION USING LIGHT- ADDRESSABLE ELECTROCHEMICAL SENSORS: INVESTIGATING THE ROLE OF METAL MORPHOLOGY AND COVERAGE ON SENSOR RESPONSE USING SCANNING ELECTROCHEMICAL METHODS	100,000
NEW VENTURE FUND (NVF) 1201 CONNECTICUT AVENUE NW SUITE 300 WASHINGTON, DC 20036	NONE	PC	2020 SPA MEMBERSHIP CONTRIBUTION	100,000
NORTH CAROLINA STATE UNIVERSITY 1000 HARRIS HALL BOX 7313 RALEIGH, NC 27695	NONE	GOV	DIRECT: DESIGNER INTERFACIAL REACTIVITY VIA ELECTROSTATICALLY-ENHANCED CHARGE TRANSFER	55,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
a <i>Paid during the year</i>				
NORTHWESTERN UNIVERSITY 633 CLARK STREET EVANSTON, IL 60208	NONE	NC	A NEW TECHNOLOGY TO ASSESS COVID-19 SEROSURVEILLANCE	55,000
NORTHWESTERN UNIVERSITY 633 CLARK STREET EVANSTON, IL 60208	NONE	NC	CORE-SHELL PLASMONIC NANOPARTICLE LATTICES	75,000
NORTHWESTERN UNIVERSITY 633 CLARK STREET EVANSTON, IL 60208	NONE	NC	DISTORTED ACCRETION DISKS: THE RESTLESS ENVIRONMENTS OF PLANET-FORMING SYSTEMS	62,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
OHIO STATE UNIVERSITY 281 W LANE AVENUE COLUMBUS, OH 43210	NONE	GOV	ESTABLISHING SWIFT, SENSITIVE, AND SELECTIVE (3S) SENSING TECHNOLOGIES - GOING BEYOND RT-PCR	55,000
SCIENCE FRIDAY 19 W 44TH STREET SUITE 412 NEW YORK, NY 10036	NONE	PC	2020-2021 PROPOSAL FOR SCIENCE FRIDAY INITIATIVE	50,000
SCRIPPS RESEARCH INSTITUTE 10550 NORTH TORREY PINES ROAD LA JOLLA, CA 92037	NONE	PC	CATALYTIC DIFUNCTIONALIZATION OF ALKENES USING TRANSIENT DIRECTING GROUPS	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
SUNY - STONY BROOK UNIVERSITY 100 NICHOLS ROAD STONY BROOK, NY 11794	NONE	GOV	PAN-COVID-19 MULTIVALENT BINDERS (MVBS) TO BLOCK VIRUS ENTRY	55,000
SUNY - STONY BROOK UNIVERSITY 100 NICHOLS ROAD STONY BROOK, NY 11794	NONE	GOV	MODULATING RIBOSOMAL FRAMESHIFTS TO INTERFERE WITH VIRAL PROTEIN TRANSLATION	55,000
SUNY - COLLEGE AT POTSDAM 44 PIERREPONT AVENUE POTSDAM, NY 13676	NONE	GOV	ACQUISITION OF AN KTA GO CHROMATOGRAPHY SYSTEM TO HELP EXPAND AND SUPPORT LEARNING AND RESEARCH AT SUNY POTSDAM	18,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
TEXAS A&M UNIVERSITY COLLEGE STATION 3120 TAMU COLLEGE STATION, TX 77843	NONE	GOV	DEVELOPING DESIGN RULES FOR ACCESSING METASTABLE SOLIDS THROUGH GLOBAL EXPLORATION OF SYNTHETIC LANDSCAPES	50,000
UNIVERSITY OF ARIZONA FOUNDATION 1111 N CHERRY AVENUE TUCSON, AZ 85721	NONE	PC	ARIZONA ASSURANCE ENDOWMENT	20,000
UNIVERSITY OF ARIZONA GEOSCIENCES 1025 E 4TH STREET TUCSON, AZ 85721	NONE	GOV	UNIVERSITY OF ARIZONA - 2021 LECTURE SERIES	12,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF CALIFORNIA IRVINE 680 CALIFORNIA AVE IRVINE, CA 92697	NONE	GOV	DIVERSITY, EQUITY, AND INCLUSION IN THE AGE OF COVID-19: A NEW STEM PIPELINE MODEL THAT GROWS UNDERGRADUATE RESEARCH AT MINORITY-SERVING INSTITUTIONS VIA COLLABORATION, PERSONNEL EXCHANGE AND ONLINE TRAINING	25,000
UNIVERSITY OF CALIFORNIA DAVIS ONE SHIELDS AVENUE DAVIS, CA 95616	NONE	GOV	ACHIEVING ENERGY CONVERSION FUNCTIONALITY THROUGH COMPOSITIONAL MODIFICATION: THE ROLE OF METAL PROMOTION IN CHALCOGENIDE FRAMEWORKS	100,000
UNIVERSITY OF CALIFORNIA MERCED SCIENCE ENGINEERING BLDG 1 RM 356 MERCED, CA 95343	NONE	GOV	LIGHT-INDUCED STRUCTURAL DYNAMICS IN MATERIALS: NEW THEORETICAL INSIGHT INTO ULTRAFAST PHENOMENA	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a Paid during the year				
UNIVERSITY OF CALIFORNIA MERCED SCIENCE ENGINEERING BLDG 1 RM 356 MERCED, CA 95343	NONE	GOV	SUPPORT OF THE CAL-BRIDGE PROGRAM AT UC CAMPUSES	2,200
UNIVERSITY OF CALIFORNIA SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE	GOV	PHYSICS OF CELLULAR DISTRIBUTION NETWORKS: MORPHOLOGY AND TRANSPORT IN THE ENDOPLASMIC RETICULUM	100,000
UNIVERSITY OF CALIFORNIA SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE	GOV	PAN-COVID-19 MULTIVALENT BINDERS (MVBS) TO BLOCK VIRUS ENTRY	55,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF CALIFORNIA SAN DIEGO 9500 GILMAN DRIVE LA JOLLA, CA 92093	NONE	GOV	COTTRELL FELLOWSHIP DR. KYLE BENTZ MOF-POLYMER HYBRID MATERIALS	50,000
UNIVERSITY OF CHICAGO 5801 S ELLIS AVENUE CHICAGO, IL 60637	NONE	NC	SEARCHING FOR WATER IN DISTANT WORLDS: CONNECTING THE ATMOSPHERIC AND BULK COMPOSITIONS OF SUB-NEPTUNE-SIZE PLANETS	100,000
UNIVERSITY OF COLORADO BOULDER 3100 MARINE STREET ROOM 481 BOULDER, CO 80309	NONE	GOV	NEXT-GENERATION EXPERIMENTAL PROBES OF HOT AND DENSE NUCLEAR MATTER	100,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF COLORADO BOULDER 3100 MARINE STREET ROOM 481 BOULDER, CO 80309	NONE	GOV	PHONONIC CRYSTAL SUSPENSIONS FOR PRECISION MECHANICAL SENSING	250,000
UNIVERSITY OF HOUSTON 4800 CALHOUN ROAD HOUSTON, TX 77004	NONE	PC	A POROSITY-FREE SODIUM GLASS ELECTROLYTE FORMED AT ROOM TEMPERATURE: INTEGRATED EXPERIMENTAL AND THEORETICAL APPROACH	55,000
UNIVERSITY OF ILLINOIS AT CHICAGO 1200 W HARRISON STREET CHICAGO, IL 60607	NONE	GOV	SOLID ELECTROLYTES WITH DUAL LI-AND F-ION CONDUCTIVITY TO OVERCOME THE TYRANNY OF GRAVIMETRIC CAPACITY	55,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN 506 S WRIGHT ST URBANA, IL 61801	NONE	GOV	DIRECT: DESIGNER INTERFACIAL REACTIVITY VIA ELECTROSTATICALLY-ENHANCED CHARGE TRANSFER	55,000
UNIVERSITY OF MARYLAND COLLEGE PARK 7600 BALTIMORE AVENUE COLLEGE PARK, MD 20742	NONE	GOV	2-BEAM ACTION SPECTROSCOPY FOR ELUCIDATING COMPLEX NONLINEAR OPTICAL PHENOMENA IN EMERGING 2D MATERIALS	75,000
UNIVERSITY OF MICHIGAN 500 S STATE STREET ANN ARBOR, MI 48109	NONE	GOV	CHEMICAL MODIFICATIONS TO MRNA NUCLEOSIDES: A NEW FRONTIER IN GENE REGULATION	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF MICHIGAN 500 S STATE STREET ANN ARBOR, MI 48109	NONE	GOV	A POROSITY-FREE SODIUM GLASS ELECTROLYTE FORMED AT ROOM TEMPERATURE: INTEGRATED EXPERIMENTAL AND THEORETICAL APPROACH	55,000
UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE ONE UNIVERSITY HEIGHTS ASHEVILLE, NC 28804	NONE	GOV	SHEDDING LIGHT ON STAR FORMATION DRIVEN GALAXY OUTFLOWS ACROSS COSMIC TIME	100,000
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL 220 E CAMERON AVENUE CHAPEL HILL, NC 27599	NONE	GOV	ORGANOCATALYTIC KINETIC RESOLUTION POLYMERIZATION OF LACTONES	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL 220 E CAMERON AVENUE CHAPEL HILL, NC 27599	NONE	GOV	PAN-COVID-19 MULTIVALENT BINDERS (MVBS) TO BLOCK VIRUS ENTRY	55,000
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL 220 E CAMERON AVENUE CHAPEL HILL, NC 27599	NONE	GOV	ESTABLISHING SWIFT, SENSITIVE, AND SELECTIVE (3S) SENSING TECHNOLOGIES - GOING BEYOND RT-PCR	55,000
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL 220 E CAMERON AVENUE CHAPEL HILL, NC 27599	NONE	GOV	METAL-FREE, CONTROLLED STEREOSELECTIVE POLYMERIZATION OF VINYL ETHERS	62,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF OKLAHOMA 660 PARRINGTON OVAL NORMAN, OK 73019	NONE	GOV	HOW DOES AN ANAEROBIC MICROBIAL PATHOGEN SENSE OXYGEN STRESS?	50,000
UNIVERSITY OF ROCHESTER 252 ELMWOOD AVENUE ROCHESTER, NY 14627	NONE	PC	ENABLING NEW CHEMICAL REACTIVITIES THROUGH POLARITON PHOTOCHEMISTRY	100,000
UNIVERSITY OF ROCHESTER 252 ELMWOOD AVENUE ROCHESTER, NY 14627	NONE	PC	NEUTRINO-NUCLEUS INTERACTION STUDIES FOR NEUTRINO INTERFEROMETRY, AND A FLIPPED CLASSROOM FOR VULNERABLE STEM STUDENTS IN INTRODUCTORY PHYSICS IN THE COVID-19 YEAR	75,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF SAN DIEGO 5998 ALCALA PARK SAN DIEGO, CA 92110	NONE	PC	UPGRADED LASER-SCANNING CONFOCAL MICROSCOPE SYSTEM FOR RESEARCH AND TEACHING	10,000
UNIVERSITY OF SOUTHERN CALIFORNIA 3650 MCCLINTOCK AVENUE LOS ANGELES, CA 90007	NONE	PC	SOLID ELECTROLYTES WITH DUAL LI- AND F-ION CONDUCTIVITY TO OVERCOME THE TYRANNY OF GRAVIMETRIC CAPACITY	55,000
UNIVERSITY OF SOUTHERN CALIFORNIA 3650 MCCLINTOCK AVENUE LOS ANGELES, CA 90007	NONE	PC	DIRECT: DESIGNER INTERFACIAL REACTIVITY VIA ELECTROSTATICALLY-ENHANCED CHARGE TRANSFER	55,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF SOUTHERN CALIFORNIA 3650 MCCLINTOCK AVENUE LOS ANGELES, CA 90007	NONE	PC	SEED: OPTIMIZATION OF QUANTUM DOT NANOFABRICATION BASED ON HIGH-THROUGHPUT CONTINUOUS FLOW CHEMISTRY	50,000
UNIVERSITY OF SOUTHERN CALIFORNIA 3650 MCCLINTOCK AVENUE LOS ANGELES, CA 90007	NONE	PC	DESIGNER ELECTRIC FIELDS AT INTERFACES TO INFLUENCE ELECTROCATALYSIS	62,500
UNIVERSITY OF SOUTHERN CALIFORNIA 3650 MCCLINTOCK AVENUE LOS ANGELES, CA 90007	NONE	PC	SOLID ELECTROLYTES WITH DUAL LI+ AND F- ION CONDUCTIVITY TO OVERCOME THE BARRIER OF GRAVIMETRIC CAPACITY	62,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF TEXAS AT AUSTIN 110 INNER CAMPUS DRIVE AUSTIN, TX 78705	NONE	GOV	MOLECULAR DYNAMICS AT HETEROGENEOUS OIL-WATER INTERFACES AND A NEW APPROACH TO ADDRESSING THE MENTAL HEALTH NEEDS OF GRADUATE STUDENTS	100,000
UNIVERSITY OF VERMONT 85 SOUTH PROSPECT STREET BURLINGTON, VT 05405	NONE	GOV	MOVING THE DIAL: A NETWORK FOR SYSTEMATIC CHANGE	25,000
UNIVERSITY OF VIRGINIA 1001 EMMET ST N CHARLOTTESVILLE, VA 22904	NONE	GOV	TEACHING ENTROPY AND MODELING THE SEQUENCE-DETERMINANTS OF SURFACE-INITIATED COPOLYMERIZATIONS	100,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
UNIVERSITY OF WASHINGTON 1410 NE CAMPUS PARKWAY SEATTLE, WA 98195	NONE	GOV	THE OBSERVATIONAL SIGNATURES OF COSMIC GAS FLOWS IN A HYDRODYNAMIC FRAMEWORK	100,000
UNIVERSITY OF WASHINGTON 1410 NE CAMPUS PARKWAY SEATTLE, WA 98195	NONE	GOV	MACHINE LEARNING GUIDED INVESTIGATIONS OF STRUCTURE-FUNCTION RELATIONSHIPS IN ORGANIC MIXED IONIC ELECTRONIC CONDUCTORS	37,500
WEST VIRGINIA UNIVERSITY PO BOX 6878 MORGANTOWN, WV 26506	NONE	GOV	INNOVATIVE GRAVITATIONAL RESEARCH AND CREATIVE CURRICULAR DEVELOPMENT: A BRIDGE TO A CAREER AS A TEACHER-SCHOLAR	75,000
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
WESTERN WASHINGTON UNIVERSITY 516 HIGH STREET BELLINGHAM, WA 98225	NONE	GOV	METAL PHOSPHIDE-OXIDE HYBRID CATALYSTS FOR SOLAR FUELS PRODUCTION	50,000
WESTERN WASHINGTON UNIVERSITY 516 HIGH STREET BELLINGHAM, WA 98225	NONE	GOV	WWU BENCHTOP NMR SUPPLEMENT REQUEST	10,000
WESTERN WASHINGTON UNIVERSITY 516 HIGH STREET BELLINGHAM, WA 98225	NONE	GOV	INSTRUMENTATION FOR RAMAN THERMOMETRY PROBING PHOTOCATALYSIS AT THE NANOSCALE	10,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
WILLIAMS COLLEGE880 MAIN STREET WILLIAMSTOWN, MA 01267	NONE	PC	NONEQUILIBRIUM PHONON DYNAMICS IN TWO- DIMENSIONAL MATERIALS	100,000
YALE UNIVERSITY333 CEDAR STREET NEW HAVEN, CT 06520	NONE	PC	PRACTICAL METHODS FOR OXYGENOXYGEN BOND FORMATION	50,000
RIGOBERTO HERNANDEZ 4703 E CAMP LOWELL DRIVE TUCSON, AZ 85712	NONE	I	COTTRELL SCHOLAR IMPACT AWARD	5,000
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
HELEN BLACKWELL JULIO C DE PAULA 4703 E CAMP LOWELL DRIVE TUCSON, AZ 85712	NONE	I	COTTRELL SCHOLAR STAR AWARD	10,000
SARSEF4574 E BROADWAY BLVD TUCSON, AZ 85711	NONE	PC	PROGRAM SUPPORT	5,000
CAMP KESEM10586 W PIC BLVD 196 LOS ANGELES, CA 90064	NONE	PC	PROGRAM SUPPORT	2,500
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
LIFEFLIGHT OF MAINE 489 STATE STREET BANGOR, ME 04401	NONE	PC	PROGRAM SUPPORT	1,000
FLINN FOUNDATION 1802 N CENTRAL AVE PHOENIX, AZ 85004	NONE	PF	PROGRAM SUPPORT	25
MISSION GARDEN946 W MISSION LANE TUCSON, AZ 85745	NONE	PC	PROGRAM SUPPORT	150
Total ▶ 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
TEMPLE BETH EL 225 N COUNTRY CLUB ROAD TUCSON, AZ 85716	NONE	PC	PROGRAM SUPPORT	258
ARIZONA REPERTORY SINGERS 116 S BONANZA AVE TUCSON, AZ 85748	NONE	PC	PROGRAM SUPPORT	500
COMMUNITY FOOD BANK OF SOUTHERN ARIZONA 3003 S COUNTRY CLUB ROAD TUCSON, AZ 85713	NONE	PC	PROGRAM SUPPORT	3,663
Total ► 3a				5,578,196

Form 990PF Part XV Line 3 - Grants and Contributions Paid During the Year or Approved for Future Payment				
Recipient	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
Name and address (home or business)				
a <i>Paid during the year</i>				
RETURN TO FREEDOM 4115 JALAMA ROAD LOMPOC, CA 93436	NONE	PC	PROGRAM SUPPORT	500
Total  3a				5,578,196

TY 2020 Accounting Fees Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
AUDIT & TAX FEES	35,500	17,750	17,750	17,750

TY 2020 Explanation of Non-Filing with Attorney General Statement

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Statement:

RESEARCH CORPORATION FILES IN SEVERAL STATES TO REPORT UNRELATED BUSINESS TAXABLE INCOME. THE CORPORATION HAS NO PRESENCE OR ACTIVITIES IN THESE STATES. SOME OF THESE STATES DO NOT REQUIRE REGISTRATION WITH THE ATTORNEY GENERAL IF CONTRIBUTIONS ARE NOT SOLICITED IN THE STATE.

TY 2020 Investments Corporate Stock Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Investments Corporation Stock Schedule

Name of Stock	End of Year Book Value	End of Year Fair Market Value
PUBLIC EQUITY INVESTMENTS	145,273,209	145,273,209

TY 2020 Investments - Other Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Investments Other Schedule 2

Category/ Item	Listed at Cost or FMV	Book Value	End of Year Fair Market Value
ALTERNATIVE INVESTMENTS	FMV	39,511,493	39,511,493
FIXED INCOME INVESTMENTS	FMV	28,256,381	28,256,381

TY 2020 Legal Fees Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
LEGAL FEES	21,702	0	0	28,317

TY 2020 Other Assets Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Other Assets Schedule

Description	Beginning of Year - Book Value	End of Year - Book Value	End of Year - Fair Market Value
OTHER ASSETS	186,945	148,873	148,873

TY 2020 Other Expenses Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Other Expenses Schedule

Description	Revenue and Expenses per Books	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
POSTAGE	1,380	0	0	1,380
OFFICE EXPENSE	36,722	0	0	142,532
COMPUTER HARDWARE & EXPENSES	153,666	0	0	153,666
ADVERTISING & PROMOTION	33,590	0	0	33,590
INSURANCE	32,325	0	0	32,325
PROFESSIONAL DEVELOPMENT	16,227	0	0	16,227
AWARDS & HONORARIA	93,600	0	0	93,600

TY 2020 Other Income Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Other Income Schedule

Description	Revenue And Expenses Per Books	Net Investment Income	Adjusted Net Income
OTHER INCOME (LOSS) FROM K-1S	826,558	798,407	826,558

TY 2020 Other Increases Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Other Increases Schedule

Description	Amount
BOOK/TAX DIFFERENCE FROM INVESTMENTS	34,928,765

TY 2020 Other Liabilities Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Description	Beginning of Year - Book Value	End of Year - Book Value
POSTRETIREMENT BENEFIT OBLIGATION	487,400	455,748
LBT LIABILITY	378,222	371,607

TY 2020 Other Professional Fees Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
INVESTMENT FEES	3,889,757	3,872,291	3,889,757	0
CONSULTANT FEES	2,604	0	0	2,604

TY 2020 Taxes Schedule

Name: RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

EIN: 13-1963407

Taxes Schedule

Category	Amount	Net Investment Income	Adjusted Net Income	Disbursements for Charitable Purposes
UBTI TAXES	2,340	0	0	0
FOREIGN TAXES	1,108	1,108	0	0

Schedule B (Form 990, 990-EZ, or 990-PF) Department of the Treasury Internal Revenue Service	Schedule of Contributors ▶ Attach to Form 990, 990-EZ, or 990-PF. ▶ Go to www.irs.gov/Form990 for the latest information.	OMB No. 1545-0047 2020
	Name of the organization RESEARCH CORPORATION DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT	Employer identification number 13-1963407

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
RESEARCH CORPORATION DBA RESEARCH
CORPORATION FOR SCIENCE ADVANCEMENT

Employer identification number
13-1963407

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
1	THE KAVLI FOUNDATION 5715 MESMER AVENUE LOS ANGELES, CA 90230	\$ 50,000	☒ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
2	NATIONAL SCIENCE FOUNDATION 2415 EISENHOWER AVENUE ALEXANDRIA, VA 22314	\$ 335,555	☒ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
.		\$	☐ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
.		\$	☐ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
.		\$	☐ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
.		\$	☐ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)
.		\$	☐ Person ☐ Payroll ☐ Noncash (Complete Part II for noncash contributions.)

Name of organization RESEARCH CORPORATION DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT	Employer identification number 13-1963407
--	--

Part II Noncash Property			
(a) No. from Part I	(b) Description of noncash property given (see instructions). Use duplicate copies of Part II if additional space is needed.	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	
(a) No. from Part I	(b) Description of noncash property given	(c) FMV (or estimate) (See instructions)	(d) Date received
-		\$	

Name of organization RESEARCH CORPORATION DBA RESEARCH CORPORATION FOR SCIENCE ADVANCEMENT	Employer identification number 13-1963407
---	--

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