

For Paperwork Reduction Act Notice, see the separate instructions. Cat No 11282Y Form **990** (2018)

Part III Statement of Program Service AccomplishmentsCheck if Schedule O contains a response or note to any line in this Part III ☐**1** Briefly describe the organization's mission

ESTABLISHED THROUGH CONGRESSIONAL AUTHORITY AND SUPPORTED BY NASA VIA COOPERATIVE AGREEMENT NO 80JSC018M005, THE CASIS MISSION IS TO FOSTER SCIENTIFIC DISCOVERY AND TECHNOLOGICAL INNOVATION IN SPACE, EXPAND U S LEADERSHIP IN COMMERCIAL SPACE, AND INSPIRE THE NEXT GENERATION

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 \$ 13,397,710 including grants of \$ 4,351,890) (Revenue \$ 551,099)
See Additional Data

4b (Code) (Expenses \$ including grants of \$) (Revenue \$)

4c (Code) (Expenses \$ including grants of \$) (Revenue \$)

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

4e Total program service expenses ► 13,397,710

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	1 Yes	
2 Is the organization required to complete Schedule B, Schedule of Contributors (see instructions)?	2 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	3	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	4	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 Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III	5	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	6	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	7	No
8 Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete Schedule D, Part III	8	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	9	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	10	No
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		
a Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D, Part VI	11a Yes	
b 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	11b	No
c 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	11c	No
d 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	11d	No
e Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e	No
f 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)? If "Yes," complete Schedule D, Part X	11f Yes	
12a Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete Schedule D, Parts XI and XII	12a Yes	
b 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	12b	No
13 Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	13	No
14a Did the organization maintain an office, employees, or agents outside of the United States?	14a	No
b 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	14b	No
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	15	No
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	16	No
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)	17	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	18	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	19	No
20a Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	20a	No
b If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b	
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	21 Yes	
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? If "Yes," complete Schedule I, Parts I and III	22	No

Part IV Checklist of Required Schedules (continued)

	Yes	No
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	No
b Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b	
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	
d Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d	
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, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II</i>	26	No
27 Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity 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 Schedule L, Part IV instructions for applicable filing thresholds, conditions, and exceptions)		
a A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28a	No
b A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	28b	No
c An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <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	No
30 Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>	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? <i>If "Yes," complete Schedule R, Part I</i>	33	No
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	No
35a Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a	No
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	
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 in 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 ComplianceCheck 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 106	
b Enter the number of Forms W-2G included in 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	

2a Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements, filed for the calendar year ending with or within the year covered by this return		2a	66	2b	Yes	
b If at least one is reported on line 2a, did the organization file all required federal employment tax returns? Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instructions)						
3a Did the organization have unrelated business gross income of \$1,000 or more during the year?				3a		No
b If "Yes," has it filed a Form 990-T for this year? If "No" to line 3b, provide an explanation in Schedule O				3b		
4a At any time during the calendar year, did the organization have an interest in, or a signature or other authority over, a financial account in a foreign country (such as a bank account, securities account, or other financial account)?				4a		No
b If "Yes," enter the name of the foreign country See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial Accounts (FBAR)						
5a Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?				5a		No
b Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter transaction?				5b		No
c If "Yes," to line 5a or 5b, did the organization file Form 8886-T?				5c		
6a Does the organization have annual gross receipts that are normally greater than \$100,000, and did the organization solicit any contributions that were not tax deductible as charitable contributions?				6a		No
b If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?				6b		
7 Organizations that may receive deductible contributions under section 170(c).						
a Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and services provided to the payor?				7a		No
b If "Yes," did the organization notify the donor of the value of the goods or services provided?				7b		
c Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it was required to file Form 8282?				7c		No
d If "Yes," indicate the number of Forms 8282 filed during the year				7d		
e Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?				7e		No
f Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract?				7f		No
g If the organization received a contribution of qualified intellectual property, did the organization file Form 8899 as required?				7g		No
h If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization file a Form 1098-C?				7h		No
8 Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintained by the sponsoring organization have excess business holdings at any time during the year?						
				8		
9a Did the sponsoring organization make any taxable distributions under section 4966?				9a		
b Did the sponsoring organization make a distribution to a donor, donor advisor, or related person?				9b		
10 Section 501(c)(7) organizations. Enter						
a Initiation fees and capital contributions included on Part VIII, line 12				10a		
b Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities				10b		
11 Section 501(c)(12) organizations. Enter						
a Gross income from members or shareholders				11a		
b Gross income from other sources (Do not net amounts due or paid to other sources against amounts due or received from them)				11b		
12a Section 4947(a)(1) non-exempt charitable trusts. Is the organization filing Form 990 in lieu of Form 1041?						
b If "Yes," enter the amount of tax-exempt interest received or accrued during the year				12b		
13 Section 501(c)(29) qualified nonprofit health insurance issuers.						
a Is the organization licensed to issue qualified health plans in more than one state? Note. See the instructions for additional information the organization must report on Schedule O				13a		
b Enter the amount of reserves the organization is required to maintain by the states in which the organization is licensed to issue qualified health plans				13b		
c Enter the amount of reserves on hand				13c		
14a Did the organization receive any payments for indoor tanning services during the tax year?				14a		No
b If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedule O				14b		
15 Is the organization subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year? If "Yes," see instructions and file Form 4720, Schedule N				15		No
16 Is the organization an educational institution subject to the section 4968 excise tax on net investment income? If "Yes," complete Form 4720, Schedule O				16		No

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

		Yes	No
1a Enter the number of voting members of the governing body at the end of the tax year	1a 7		
If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain in Schedule O			
b Enter the number of voting members included in line 1a, above, who are independent	1b 7		
2 Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?	2		No
3 Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors or trustees, or key employees to a management company or other person?	3		No
4 Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4		No
5 Did the organization become aware during the year of a significant diversion of the organization's assets?	5		No
6 Did the organization have members or stockholders?	6		No
7a Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?	7a		No
b Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?	7b		No
8 Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:			
a The governing body?	8a	Yes	
b Each committee with authority to act on behalf of the governing body?	8b	Yes	
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? If "Yes," provide the names and addresses in Schedule O.	9		No

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

	Yes	No
10a Did the organization have local chapters, branches, or affiliates?	10a	No
b 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?	10b	
11a Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?	11a	Yes
b Describe in 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.	12a	Yes
b Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	12b	Yes
c Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done.	12c	Yes
13 Did the organization have a written whistleblower policy?	13	Yes
14 Did the organization have a written document retention and destruction policy?	14	Yes
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?		
a The organization's CEO, Executive Director, or top management official	15a	Yes
b Other officers or key employees of the organization	15b	Yes
If "Yes" to line 15a or 15b, describe the process in 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?	16a	No
b 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?	16b	

Section C. Disclosure

17 List the States with which a copy of this Form 990 is required to be filed: _____

18 Section 6104 requires an organization to make its Form 1023 (or 1024-A if applicable), 990, and 990-T (501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.

☐ Own website ☐ Another's website ☒ Upon request ☐ Other (explain in Schedule O)

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.

20 State the name, address, and telephone number of the person who possesses the organization's books and records.
 ► JOSEPH H HASTINGS CPA 6905 N WICKHAM ROAD SUITE 500 MELBOURNE, FL 32940 (321) 757-6118

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 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 and/or Box 7 of Form 1099-MISC) 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.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

☐ 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)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(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) ANDREI RUCKENSTEIN DIRECTOR	8 00	X						41,000	0	0
(2) CAROLYN M TICKNOR DIRECTOR	8 00	X						39,500	0	0
(3) GORDANA VUNJAK-NOVAKOVIC DIRECTOR	8 00	X						39,500	0	0
(4) HOWARD ZUCKER DIRECTOR	8 00	X						30,750	0	0
(5) IOANNIS MIAOULIS DIRECTOR	8 00	X						29,250	0	0
(6) JOSEPH FORMICHELLI DIRECTOR	8 00	X						40,000	0	0
(7) JOSEPH JACOBUS VAN DOKKUM DIRECTOR	8 00	X						20,500	0	0
(8) LEWIS M DUNCAN DIRECTOR	8 00	X						41,000	0	0
(9) LT GEN JAMES ABRAHAMSON INTERIM PRESIDENT & EXECUTIVE DIRECTOR	50 00	X		X				99,194	0	1,678
(10) PHILIP S SCHEIN CHAIRMAN	8 00	X						41,000	0	0
(11) STEVEN L SMITH DIRECTOR	8 00	X						41,000	0	0
(12) GREGORY H JOHNSON PRESIDENT & EXECUTIVE DIRE	50 00			X				213,714	0	8,210
(13) JORGE FERNANDEZ TREASURER & CHIEF FINANCIA	50 00			X				234,139	0	27,644
(14) JOSEPH G VOCKLEY CEO AND PRESIDENT	50 00			X				201,263	0	13,521
(15) JOSEPH H HASTINGS TREASURER	50 00			X				132,425	0	24,463
(16) KENNETH SHIELDS VICE PRESIDENT & DIRECTOR OF OPERATIONS	50 00			X				193,020	0	34,910
(17) MELODY KUEHNER SECRETARY & DIRECTOR OF HR	50 00			X				186,483	0	35,302

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)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(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			
(18) BRIAN TALBOT DIRECTOR OF MARKETING & COMMUNICATIONS	40 00					X		167,006	0	11,453
(19) C RANDY GILES CHIEF SCIENTIST	50 00					X		237,855	0	23,967
(20) CYNTHIA TOCCO DIRECTOR OF BUSINESS DEVEL	40 00					X		155,744	0	25,631
(21) MICHAEL ROBERTS DEPUTY CHIEF SCIENTIST	50 00					X		184,556	0	34,892
(22) WARREN BATES DIRECTOR OF PORTFOLIO MANA	40 00					X		202,426	0	34,115

1b Sub-Total	▶			
c Total from continuation sheets to Part VII, Section A	▶			
d Total (add lines 1b and 1c)	▶	2,571,325	0	275,786

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 ▶ 30

	Yes	No
3 Did the organization list any former officer, director or trustee, key employee, or highest compensated employee on line 1a? If "Yes," complete Schedule J for such individual		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? If "Yes," complete Schedule J for such individual	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? If "Yes," complete Schedule J for such person		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
MARKETING TALENT NETWORK INC 1355 S PATRICK DRIVE SUITE 100 SATELLITE BEACH, FL 32937	MARKETING AND COMMUNICATIONS AGENCY	307,211
THE BIONETICS CORPORATION 101 PRODUCTION DRIVE SUITE 100 YORKTOWN, VA 23693	PROJECT MANAGEMENT CONSULTANT	277,801
COVINGTON & BURLING LLP ONE CITY CENTER 850 TENTH STREET WASHINGTON, DC 20001	LEGAL SERVICES	233,799
NAVIGANT CONSULTING INC 150 N RIVERSIDE SUITE 2100 CHICAGO, IL 60606	VALUE ADDED CONSULTANTS	139,370
BLUE ROCKET LLC 2148 ULSTER STREET DENVER, CO 80238	FILM EDITING AND PRODUCTION	122,543

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 ▶ 5

Part VIII		Statement of Revenue			
Check if Schedule O contains a response or note to any line in this Part VIII <input type="checkbox"/>					
		(A)	(B)	(C)	(D)
		Total revenue	Related or exempt function revenue	Unrelated business revenue	Revenue excluded from tax under sections 512 - 514
Contributions, Gifts, Grants and Other Similar Amounts	1a Federated campaigns	1a			
	b Membership dues	1b			
	c Fundraising events	1c			
	d Related organizations	1d			
	e Government grants (contributions)	1e	14,911,774		
	f All other contributions, gifts, grants, and similar amounts not included above	1f	291,312		
	g Noncash contributions included in lines 1a - 1f \$				
	h Total. Add lines 1a-1f		15,203,086		
Program Service Revenue	2a VIDEO PRODUCTION AND DISTRIBUTION	Business Code			
		519130	551,099	551,099	
	b				
	c				
	d				
	e				
	f All other program service revenue				
	g Total. Add lines 2a-2f		551,099		
Other Revenue	3 Investment income (including dividends, interest, and other similar amounts)		2,630		2,630
	4 Income from investment of tax-exempt bond proceeds				
	5 Royalties		12,260		12,260
	6a Gross rents	(i) Real	(ii) Personal		
	b Less rental expenses				
	c Rental income or (loss)				
	d Net rental income or (loss)				
	7a Gross amount from sales of assets other than inventory	(i) Securities	(ii) Other		
	b Less cost or other basis and sales expenses				
	c Gain or (loss)				
	d Net gain or (loss)				
	8a Gross income from fundraising events (not including \$ of contributions reported on line 1c) See Part IV, line 18	a			
	b Less direct expenses	b			
	c Net income or (loss) from fundraising events				
	9a Gross income from gaming activities See Part IV, line 19	a			
	b Less direct expenses	b			
	c Net income or (loss) from gaming activities				
	10a Gross sales of inventory, less returns and allowances	a			
	b Less cost of goods sold	b			
	c Net income or (loss) from sales of inventory				
	Miscellaneous Revenue	Business Code			
	11a				
b					
c					
d All other revenue					
e Total. Add lines 11a-11d					
12 Total revenue. See Instructions		15,769,075	551,099	0	14,890

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.	4,351,890	4,351,890		
2 Grants and other assistance to domestic individuals. See Part IV, line 22.				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, line 15 and 16.				
4 Benefits paid to or for members.				
5 Compensation of current officers, directors, trustees, and key employees.	1,259,025	909,773	349,252	
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.	5,578,205	4,223,757	1,354,448	
8 Pension plan accruals and contributions (include section 401 (k) and 403(b) employer contributions).	259,857	196,762	63,095	
9 Other employee benefits.	466,524	353,247	113,277	
10 Payroll taxes.	443,498	335,812	107,686	
11 Fees for services (non-employees):				
a Management.	325,551	172,280	153,271	
b Legal.	269,057	142,384	126,673	
c Accounting.	95,164	50,360	44,804	
d Lobbying.				
e Professional fundraising services. See Part IV, line 17.				
f Investment management fees.				
g Other (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O).				
12 Advertising and promotion.	534,795	519,703	15,092	
13 Office expenses.				
14 Information technology.	84,557	14,921	69,636	
15 Royalties.				
16 Occupancy.	255,025	218,508	36,517	
17 Travel.	844,672	636,335	208,337	
18 Payments of travel or entertainment expenses for any federal, state, or local public officials.				
19 Conferences, conventions, and meetings.	552,326	536,740	15,586	
20 Interest.				
21 Payments to affiliates.				
22 Depreciation, depletion, and amortization.	54,575	43,447	11,128	
23 Insurance.	74,019	59,269	14,750	
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 MISSION RELATED COSTS	442,357	442,357		
b SUPPLIES	185,129	80,658	104,471	
c TELECOMMUNICATIONS	84,428	68,641	15,787	
d POSTAGE AND SUBSCRIPTIO	28,088	21,624	6,464	
e All other expenses	31,667	19,242	12,425	
25 Total functional expenses. Add lines 1 through 24e.	16,220,409	13,397,710	2,822,699	0
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 SheetCheck 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	1,984	1	1,539
	2 Savings and temporary cash investments	2,737,831	2	2,767,007
	3 Pledges and grants receivable, net	459,966	3	0
	4 Accounts receivable, net	0	4	27,500
	5 Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L		5	
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Complete Part II of Schedule L		6	
	7 Notes and loans receivable, net		7	
	8 Inventories for sale or use		8	
	9 Prepaid expenses and deferred charges	133,157	9	181,466
	10a Land, buildings, and equipment—cost or other basis. Complete Part VI of Schedule D	862,212		
	b Less: accumulated depreciation	775,346		
		81,344	10c	86,866
	11 Investments—publicly traded securities		11	
	12 Investments—other securities. See Part IV, line 11		12	
	13 Investments—program-related. See Part IV, line 11		13	
	14 Intangible assets	0	14	0
	15 Other assets. See Part IV, line 11	2,843	15	3,868
	16 Total assets. Add lines 1 through 15 (must equal line 34)	3,417,125	16	3,068,246
Liabilities	17 Accounts payable and accrued expenses	618,765	17	558,960
	18 Grants payable	0	18	162,260
	19 Deferred revenue		19	
	20 Tax-exempt bond liabilities		20	
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21	
	22 Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L		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		25	
	26 Total liabilities. Add lines 17 through 25	618,765	26	721,220
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.			
	27 Unrestricted net assets	1,229,437	27	1,163,916
	28 Temporarily restricted net assets	1,568,923	28	0
	29 Permanently restricted net assets	0	29	1,183,110
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> and complete lines 30 through 34.			
	30 Capital stock or trust principal, or current funds		30	
	31 Paid-in or capital surplus, or land, building or equipment fund		31	
	32 Retained earnings, endowment, accumulated income, or other funds		32	
	33 Total net assets or fund balances	2,798,360	33	2,347,026
	34 Total liabilities and net assets/fund balances	3,417,125	34	3,068,246

Part XI Reconciliation of Net AssetsCheck 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	15,769,075
2	Total expenses (must equal Part IX, column (A), line 25)	2	16,220,409
3	Revenue less expenses Subtract line 2 from line 1	3	-451,334
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	2,798,360
5	Net unrealized gains (losses) on investments	5	
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	0
10	Net assets or fund balances at end of year Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	2,347,026

Part XII Financial Statements and ReportingCheck if Schedule O contains a response or note to any line in this Part XII ☐

- 1** Accounting method used to prepare the Form 990 ☐ Cash ☒ Accrual ☐ Other _____
If the organization changed its method of accounting from a prior year or checked "Other," explain in 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
☐ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis
- 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
☒ Separate basis ☐ Consolidated basis ☐ Both consolidated and separate basis
- 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
- 3a** As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133?
- 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	No
2a		No
2b	Yes	
2c	Yes	
3a	Yes	
3b	Yes	

Additional Data

Software ID:

Software Version:

EIN: 27-5410763

Name: CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

Form 990 (2018)

Form 990, Part III, Line 4a:

CASIS FOCUSES ON GENERATING DEMAND AND STREAMLINING ACCESS TO THE INTERNATIONAL SPACE STATION U S NATIONAL LABORATORY FOR CUTTING-EDGE RESEARCH AND DEVELOPMENT THE CASIS RESEARCH PORTFOLIO INCLUDES A DIVERSE RANGE OF RESEARCH ENTITIES SPANNING ICONIC FORTUNE 500 COMPANIES, INNOVATIVE STARTUPS, AND UNIVERSITIES THE ISS NATIONAL LABORATORY, POWERED BY THE UNIQUE PARTNERSHIP OF CASIS, NASA, GOVERNMENTAL AGENCIES, AND COMMERCIAL SERVICES PROVIDERS, DELIVERS BOTH VALUE AND IMPACT BACK TO THE AMERICAN TAXPAYER AND THE U S ECONOMY CASIS, AS A COMPONENT OF ITS EFFORTS HAS DEVELOPED METHODS OF ASSESSING THE VALUE CREATION OF THE PROJECTS IN ITS PORTFOLIO

SCHEDULE A

(Form 990 or 990EZ)

Department of the Treasury

Internal Revenue Service

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 the latest information.

OMB No 1545-0047

2018

Open to Public Inspection

Name of the organization

CENTER FOR THE ADVANCEMENT OF SCIENCE IN SPACE INC

Employer identification number

27-5410763

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 or 990-EZ))
- 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 in 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), 170(b)(1)(A)(vi), and 170(b)(1)(A)(ix)
(Complete only if you checked the box on line 5, 7, 8, or 9 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support							
	Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
1	Gifts, grants, contributions, and membership fees received (Do not include any "unusual grant ")	15,644,040	16,261,299	17,425,607	18,691,338	15,203,086	83,225,370
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	111,195	111,192	45,410	27,480	27,480	322,757
4	Total. Add lines 1 through 3	15,755,235	16,372,491	17,471,017	18,718,818	15,230,566	83,548,127
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)						
6	Public support. Subtract line 5 from line 4						83,548,127

Section B. Total Support							
Calendar year (or fiscal year beginning in) ►		(a)2014	(b)2015	(c)2016	(d)2017	(e)2018	(f)Total
7	Amounts from line 4	15,755,235	16,372,491	17,471,017	18,718,818	15,230,566	83,548,127
8	Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources	5,351	4,940	17,163	15,441	14,890	57,785
9	Net income from unrelated business activities, whether or not the business is regularly carried on						
10	Other income Do not include gain or loss from the sale of capital assets (Explain in Part VI)						
11	Total support. Add lines 7 through 10						83,605,912
12	Gross receipts from related activities, etc (see instructions)					12	1,510,698
13	First five 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 2018 (line 6, column (f) divided by line 11, column (f))	14 99.930 %
15	Public support percentage for 2017 Schedule A, Part II, line 14	15 99.950 %
16a	33 1/3% support test—2018. 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—2017. 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—2018. 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—2017. 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

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
1 Gifts, grants, contributions, and membership fees received (Do not include any "unusual grants.")						
2 Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose						
3 Gross receipts from activities that are not an unrelated trade or business under section 513						
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
5 The value of services or facilities furnished by a governmental unit to the organization without charge						
6 Total. Add lines 1 through 5						
7a Amounts included on lines 1, 2, and 3 received from disqualified persons						
b Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year						
c Add lines 7a and 7b						
8 Public support. (Subtract line 7c from line 6.)						

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2014	(b) 2015	(c) 2016	(d) 2017	(e) 2018	(f) Total
9 Amounts from line 6						
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources						
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975						
c Add lines 10a and 10b						
11 Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on						
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)						
13 Total support. (Add lines 9, 10c, 11, and 12.)						

14 First five 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** ► ☐

Section C. Computation of Public Support Percentage

15 Public support percentage for 2018 (line 8, column (f) divided by line 13, column (f))	15	
16 Public support percentage from 2017 Schedule A, Part III, line 15	16	

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2018 (line 10c, column (f) divided by line 13, column (f))	17	
18 Investment income percentage from 2017 Schedule A, Part III, line 17	18	

19a 33 1/3% support tests—2018. 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**. The organization qualifies as a publicly supported organization ► ☐

b 33 1/3% support tests—2017. 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**. The organization qualifies as a publicly supported organization ► ☐

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 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete Sections A, D, and E. If you checked 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? <i>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.</i>	1	
2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>	2	
3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>	3a	
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)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>	3b	
c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>	3c	
4a Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes" and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>	4a	
b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>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.</i>	4b	
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)? <i>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.</i>	4c	
5a Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) 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).</i>	5a	
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?	5b	
c Substitutions only. Was the substitution the result of an event beyond the organization's control?	5c	
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? <i>If "Yes," provide detail in Part VI.</i>	6	
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? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	7	
8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>	8	
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))? <i>If "Yes," provide detail in Part VI.</i>	9a	
b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>	9b	
c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>	9c	
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)? <i>If "Yes," answer line 10b below.</i>	10a	
b Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>	10b	

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 in (b) and (c) below, the governing body of a supported organization?		
b A family member of a person described in (a) above?		
c A 35% controlled entity of a person described in (a) or (b) above? <i>If "Yes" to a, b, or c, provide detail in Part VI</i>		

Section B. Type I Supporting Organizations

	Yes	No
1 Did the 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 (2), 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 <input type="checkbox"/> The organization satisfied the Activities Test. Complete line 2 below.		
b <input type="checkbox"/> The organization is the parent of each of its supported organizations. Complete line 3 below.		
c <input type="checkbox"/> The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see instructions).		
2 Activities Test. Answer (a) and (b) below.		
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 in (a) 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 (a) and (b) below.		
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>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 <input type="checkbox"/> 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 (explain in detail in Part VI)		
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 1-1/2% 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 .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	<input type="checkbox"/> 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	
2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	
3 Administrative expenses paid to accomplish exempt purposes of supported organizations	
4 Amounts paid to acquire exempt-use assets	
5 Qualified set-aside amounts (prior IRS approval required)	
6 Other distributions (describe in Part VI) See instructions	
7 Total annual distributions. Add lines 1 through 6	
8 Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI) See instructions	
9 Distributable amount for 2018 from Section C, line 6	
10 Line 8 amount divided by Line 9 amount	

Section E - Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2018	(iii) Distributable Amount for 2018
1 Distributable amount for 2018 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2018 (reasonable cause required-- explain in Part VI) See instructions			
3 Excess distributions carryover, if any, to 2018			
a From 2013.			
b From 2014.			
c From 2015.			
d From 2016.			
e From 2017.			
f Total of lines 3a through e			
g Applied to underdistributions of prior years			
h Applied to 2018 distributable amount			
i Carryover from 2013 not applied (see instructions)			
j Remainder Subtract lines 3g, 3h, and 3i from 3f			
4 Distributions for 2018 from Section D, line 7 \$			
a Applied to underdistributions of prior years			
b Applied to 2018 distributable amount			
c Remainder Subtract lines 4a and 4b from 4			
5 Remaining underdistributions for years prior to 2018, 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 2018 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 2019. Add lines 3j and 4c			
8 Breakdown of line 7			
a Excess from 2014.			
b Excess from 2015.			
c Excess from 2016.			
d Excess from 2017.			
e Excess from 2018.			

Additional Data

Software ID:
Software Version:
EIN: 27-5410763
Name: CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

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

efile GRAPHIC print - DO NOT PROCESS

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SCHEDULE D
(Form 990)

Department of the Treasury
Internal Revenue Service

Supplemental Financial Statements

► 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 the latest information.

OMB No 1545-0047

2018

Open to Public Inspection

Name of the organization
CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

Employer identification number
27-5410763

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.

1

Total number at end of year

2

Aggregate value of contributions to (during year)

3

Aggregate value of grants from (during year)

4

Aggregate value at end of year

(a) Donor advised funds

(b) Funds and other accounts

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?

Yes

No

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?

Yes

No

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)

☐ Preservation of land for public use (e g , recreation or education)

☐ Preservation of an historically important land area

☐ Protection of natural habitat

☐ Preservation of a certified historic structure

☐ Preservation of open space

2

Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last day of the tax year

Held at the End of the Year

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?

Yes

No

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)?

Yes

No

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 SFAS 116 (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 SFAS 116 (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

(i) Revenue included on Form 990, Part VIII, line 1

► \$

(ii) Assets included in Form 990, Part X

► \$

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 SFAS 116 (ASC 958) relating to these items

a

Revenue included on Form 990, Part VIII, line 1

► \$

b

Assets included in Form 990, Part X

► \$

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Cat No 52283D

Schedule D (Form 990) 2018

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

c

Beginning balance

d

Additions during the year

e

Distributions during the year

f

Ending balance

	Amount
1c	
1d	
1e	
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					
b Contributions					
c Net investment earnings, gains, and losses					
d Grants or scholarships					
e Other expenditures for facilities and programs					
f Administrative expenses					
g End of year balance					

2

Provide the estimated percentage of the current year end balance (line 1g, column (a)) held as

a

Board designated or quasi-endowment ▶

b

Permanent endowment ▶

c

Temporarily restricted 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

(i) unrelated organizations

(ii) related organizations

b

If "Yes" on 3a(ii), are the related organizations listed as required on Schedule R?

	Yes	No
3a(i)		
3a(ii)		
3b		

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				
b Buildings				
c Leasehold improvements				
d Equipment		817,308	742,332	74,976
e Other		44,904	33,014	11,890
Total. Add lines 1a through 1e (Column (d) must equal Form 990, Part X, column (B), line 10(c)) . . . ▶				86,866

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)		
(B)		
(C)		
(D)		
(E)		
(F)		
(G)		
(H)		
Total. (Column (b) must equal Form 990, Part X, col (B) line 12) ▶		

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		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
Total. (Column (b) must equal Form 990, Part X, col (B) line 25) ▶		

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	15,796,555
2	Amounts included on line 1 but not on Form 990, Part VIII, line 12		
a	Net unrealized gains (losses) on investments	2a	
b	Donated services and use of facilities	2b	27,480
c	Recoveries of prior year grants	2c	
d	Other (Describe in Part XIII)	2d	
e	Add lines 2a through 2d	2e	27,480
3	Subtract line 2e from line 1	3	15,769,075
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	
b	Other (Describe in Part XIII)	4b	
c	Add lines 4a and 4b	4c	0
5	Total revenue. Add lines 3 and 4c . (This must equal Form 990, Part I, line 12)	5	15,769,075

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	16,247,889
2	Amounts included on line 1 but not on Form 990, Part IX, line 25		
a	Donated services and use of facilities	2a	27,480
b	Prior year adjustments	2b	
c	Other losses	2c	
d	Other (Describe in Part XIII)	2d	
e	Add lines 2a through 2d	2e	27,480
3	Subtract line 2e from line 1	3	16,220,409
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	
b	Other (Describe in Part XIII)	4b	
c	Add lines 4a and 4b	4c	0
5	Total expenses. Add lines 3 and 4c . (This must equal Form 990, Part I, line 18)	5	16,220,409

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
See Additional Data Table	

Part XIII Supplemental Information *(continued)*

Return Reference	Explanation

Additional Data

Software ID:

Software Version:

EIN: 27-5410763

Name: CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

Supplemental Information

Return Reference	Explanation
PART X, LINE 2	CASIS IS EXEMPT FROM FEDERAL AND STATE INCOME TAX UNDER SECTION 501(A) OF THE INTERNAL REVENUE CODE AS AN ORGANIZATION DESCRIBED IN SECTION 501(C)(3) THEREFORE, ONLY INCOME FROM BUSINESS UNRELATED TO THE ORGANIZATION'S CHARITABLE PURPOSE IS SUBJECT TO FEDERAL OR STATE INCOME TAX CASIS FOLLOWS THE ACCOUNTING GUIDANCE FOR UNCERTAINTY IN INCOME TAXES USING THE PROVISIONS OF FINANCIAL ACCOUNTING STANDARDS BOARD (FASB) ASC 740, INCOME TAXES USING THAT GUIDANCE, TAX POSITIONS INITIALLY NEED TO BE RECOGNIZED IN THE FINANCIAL STATEMENTS WHEN IT IS MORE-LIKELY-THAN-NOT THE POSITION WILL NOT BE SUSTAINED UPON EXAMINATION BY THE TAX AUTHORITIES AS OF SEPTEMBER 30, 2019, CASIS HAD NO UNCERTAIN TAX POSITIONS THAT QUALIFY FOR EITHER RECOGNITION OR DISCLOSURE IN THE FINANCIAL STATEMENTS ADDITIONALLY, CASIS HAD NO INTEREST AND PENALTIES RELATED TO INCOME TAXES WITH FEW EXCEPTIONS, CASIS IS NO LONGER SUBJECT TO U S FEDERAL, STATE AND LOCAL INCOME TAX EXAMINATIONS BY TAX AUTHORITIES FOR YEARS BEFORE SEPTEMBER 30, 2016

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

Schedule I
(Form 990)

Department of the
Treasury
Internal Revenue Service

Name of the organization
CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

**Grants and Other Assistance to Organizations,
Governments and Individuals in the United States**

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.

OMB No 1545-0047

2018

Open to Public
Inspection

Employer identification number
27-5410763

Part I General Information on Grants and Assistance

- 1** 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**
- 2** Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States

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.

(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 noncash assistance	(h) Purpose of grant or assistance
(1) See Additional Data							
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							
(11)							
(12)							

2 Enter total number of section 501(c)(3) and government organizations listed in the line 1 table **16**

3 Enter total number of other organizations listed in the line 1 table **28**

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)					
(2)					
(3)					
(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
SCHEDULE I, PART I, LINE 2	GRANTS ARE DETERMINED FOLLOWING A DEFINED PROPOSAL REVIEW, GUIDED BY AN ASSESSMENT OF POTENTIAL PROJECT IMPACT VARIOUS EXTERNAL AND INTERNAL CONSTITUENTS UNDER CONTRACT WITH CASIS AND WITH RELEVANT EXPERTISE CONDUCT THIS REVIEW, WHICH INCLUDES THE FOLLOWING STEPS (1) OPERATIONS EVALUATION TO DETERMINE FEASIBILITY AND ACHIEVABILITY WITHIN THE ESTIMATED BUDGET AND TIMELINE (2) SCIENTIFIC EVALUATION BY SUBJECT MATTER EXPERTS TO SCORE SCIENTIFIC MERIT AND POTENTIAL IMPACT (3) VALUE ASSESSMENT TO SCORE POTENTIAL ECONOMIC, INNOVATION AND SOCIAL BENEFITS RELATIVE TO TECHNICAL AND COMMERCIAL RISK (4) EDUCATION EVALUATION TO CONFIRM ALIGNMENT WITH CASIS EDUCATION GOALS (5) RISK AND COMPLIANCE REVIEW TO EVALUATE REGULATORY AND LEGAL RISKS FOLLOWING THESE STEPS, THE EXECUTIVE DIRECTOR AND CHIEF SCIENTIST PERFORM THE FINAL PRIORITIZATION AND AWARD DETERMINATION

Additional Data

Software ID:
Software Version:
EIN: 27-5410763
Name: CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
EDUCATION							EDUCATION
BOYS & GIRLS CLUBS OF MONMOUTH COUNTY 1201 MONROE AVENUE ASBURY PARK, NJ 07712	21-0694373	501(C)(3)	5,000				THIS STEM EDUCATION PROGRAM IMMERSSES STUDENTS IN A VIRTUAL MISSION TO THE INTERNATIONAL SPACE STATION

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
FIRST THE SEED FOUNDATION 1701 DUKE ST STE 275 ALEXANDRIA VA, VA 22314	68-0654181		14,550				INVESTIGATE HOW THE SPACE ENVIRONMENT OF LOW EARTH ORBIT AFFECTS TOMATO SEEDS AND THEIR SUBSEQUENT ABILITY TO GERMINATE INTO PLANTS ON EARTH
NCESSETIDES CENTER PO BOX 29907 SAN FRANCISCO, CA 94129	94-3213100	501(C)(3)	99,900				DESIGN EXPERIMENTS TO BE FLOWN IN THE NANORACKS MODULE ONBOARD THE ISS USING FLIGHT APPROVED FLUIDS AND MATERIALS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
QUEST INSTITUTE FOR QUALITY EDUCATION 100 SKYWAY DR SAN JOSE, CA 95111	20-4451361	501(C)(3)	74,955				THIS PROJECT SUPPORTS THE QUEST FOR SPACE EDUCATIONAL PROGRAM, WHICH ALLOWS STUDENTS TO DESIGN AND RUN EXPERIMENTS ON THE ISS
THE RADIO AMATEUR SATELLITE CORPORATION 10605 CONCORD STREET 304 KENSINGTON, MD 20895	52-0888529		75,317				EDUCATES STUDENTS THROUGH RADIO COMMUNICATIONS ACTIVITIES INVOLVING THE INTERNATIONAL SPACE STATION

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
FACILITY							FACILITY
CRAIG TECHNOLOGIES 150 N SYKES CREEK PKWY SUITE 200 MERRITT ISLAND, FL 32953	54-1935688		100,000				ACCELERATES FLIGHT HARDWARE DEVELOPMENT FOR ADDITIVE MANUFACTURING TECHNOLOGIES AND A FLIGHT TEST PLATFORM TO SUPPORT LOW EARTH ORBIT MISSIONS AND EXPERIMENTS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
IMPLEMENTATION PARTNERS							IMPLEMENTATION PARTNERS
SPACE TANGO INC 333 E SHORT ST STE 220 LEXINGTON, KY 40507	61-1336389		166,050				IMPLEMENTATION PARTNER FOR MULTIPLE FLIGHT PROJECTS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
TECHSHOT INC 7200 HIGHWAY 150 GREENVILLE, IN 47124	35-1784668		221,714				IMPLEMENTATION PARTNER TO SUPPORT PRINICIPAL INVESTIGTOR IN MISSION INTEGRATIONS & OPS
ZIN TECHNOLOGIES INC 6745 EAGLE RD MIDDLEHEIGHTS, OH 44130	34-1603383		707,787				IMPLEMENTATION PARTNER FOR MULTIPLE FLIGHT PROJECTS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
LIFE SCIENCE GRANTS							LIFE SCIENCES
APHIOS CORPORATION 3-E GILL STREET WOBURN, MA 01801	04-3205324		60,000				EXAMINES NANOPARTICLE BEHAVIOR IN MICROGRAVITY, TOWARD INVESTIGATING THE MANUFACTURE OF TARGETED NANOPARTICLES THAT ENCAPSULATE DRUGS IN TINY CELL-LIKE BUBBLES CALLED NANOSOMES TO TREAT ALZHEIMER'S AND OTHER DISEASES

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
AXOSIM TECHNOLOGIES LLC 928 TAFT PLACE NEW ORLEANS, LA 70119	47-1049140		35,000				DEMONSTRATE UTILITY OF A HUMAN NERVE-ON-A-CHIP AS PHYSIOLOGICAL MODEL OF MYELINATION
BOARD OF REGENTS OF UNIVERSITY OF WISCONSIN SYSTEM UW-MADISON GAR ACCOUNT OFFICE FOR RESEARCH SPONSORED PROGRAMS DRAWER MILWAUKEE, WI 532780538	39-6006492		101,265				EXAMINES EFFECTSON COTTON PLANT GROWTH AND ROOT BEHAVIOR FROM THE STRESS OF MICROGRAVITY TO UNDERSTAND MOLECULAR CAUSES OF COTTON'S RESPONSE TO LIMITED WATER AVAILABILITY, TOWARD THE DEVELOPMENT OF COTTON PLANTS THAT USE WATER MORE EFFICIENTLY

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
CLEMSON UNIVERSITY 108 SILAS N PEARMAN BLVD CLEMSON, SC 29634	57-6000254	501(C)(3)	107,864				EXAMINES GENE EXPRESSION PATTERNS IN COTTON PLANT TISSUES IN SPACEFLIGHT TO BETTER UNDERSTAND THE MOLECULAR MECHANISMS INVOLVED IN PLANT REGENERATION
EMORY UNIVERSITY PO BOX 935084 ATLANTA, GA 311935084	58-0566256	501(C)(3)	91,540				STUDIES MICROGRAVITY'S EFFECTS ON THE GENERATION OF SPECIALIZED HEART MUSCLE CELLS DEVELOPED FROM ADULT CELLS THAT WERE ALTERED TO REINSTATE CHARACTERISTICS OF STEM CELLS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
H NU PHOTONICS LLC 350 HOOHANA STREET KAHULUI, HI 96732	20-8838710		46,683				GROWS MADIN-DARBY CANINE KIDNEY CELL CULTURES INFECTED WITH THE INFLUENZA VIRUS IN MICROGRAVITY TO EXPLORE THE MECHANISMS INVOLVED IN VIRAL REPLICATION AND PRODUCTION, TOWARD CELL-BASED MANUFACTURING OF INFLUENZA VACCINES
KERNAL BIOLOGICS INC 700 MAIN STREET CAMBRIDGE, MA 02139	81-3590890		47,641				THIS PROJECT SEEKS TO TEST CANDIDATE MESSENGER RNA MOLECULES TO IDENTIFY WHICH ARE BEST ABLE TO DISTINGUISH BETWEEN CANCER CELLS AND HEALTHY CELLS IN THE STRESSFUL MICROGRAVITY ENVIRONMENT, TOWARD THE DEVELOPMENT OF NEW IMMUNOTHERAPY DRUGS TO TREAT LEUKEMIA

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
MICRO-GRX INCORPORATED 8564 NORTHLAKE PARKWAY ORLANDO, FL 32837	47-3309856		46,950				EXPANDS USE OF LAB-ON-A-CHIP TO PROVIDE A MODEL FOR MICROGRAVITY-INDUCED MUSCLE ATROPHY, FACILITATING HIGHER-ACCURACY MUSCULOSKELETAL DISEASE MODELING AND THERAPEUTIC TESTING, WHICH COULD LEAD TO SIGNIFICANT COST SAVINGS IN CLINICAL TRIALS
MICROQUIN LTD 700 MAIN STREET CAMBRIDGE, MA 02139	32-0574075		171,937				THIS PROJECT AIMS TO CRYSTALLIZE A MEMBRANE PROTEIN THAT PLAYS A KEY ROLE IN TUMOR FORMATION AND CANCER SURVIVAL AND IS INVOLVED IN THE DISEASE PROGRESSION OF PARKINSONS, ALZHEIMERS, AND TYPE 2 DIABETES, TOWARD THE DEVELOPMENT OF NEW TARGETED DRUGS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
PHERONYM INC 12085 RESEARCH DRIVE IMB 57 SUITE 151 ALACHUA, FL 32615	45-3529755		41,407				THIS PROJECT AIMS TO CRYSTALLIZE A MEMBRANE PROTEIN THAT PLAYS A KEY ROLE IN TUMOR FORMATION AND CANCER SURVIVAL AND IS INVOLVED IN THE DISEASE PROGRESSION OF PARKINSONS, ALZHEIMERS, AND TYPE 2 DIABETES, TOWARD THE DEVELOPMENT OF NEW TARGETED DRUGS
REGENTS OF THE UNIVERSITY OF COLORADO PO BOX 910220 DENVER, CO 80291	84-6000555	501(C)(3)	522,928				EXAMINE HOW A MICROSCOPIC ROUNDWORM COMMON IN SOIL GROWS AND BEHAVES IN MICROGRAVITY TO DETERMINE THEIR EFFECTIVENESS AS A BIOLOGICAL PEST CONTROL SOLUTION

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
REGENTS OF THE UNIVERSITY OF MINNESOTA NW5957 PO BOX 1450 MINNEAPOLIS, MN 554855957	41-6007513	501(C)(3)	268,549				THIS PROJECT AIMS TO EXAMINE CHANGES IN A TRANSCRIPTION FACTOR THAT IS IMPORTANT FOR DIFFERENTIATION IN MOUSE STEM CELLS UNDER CONDITIONS OF MAGNETIC LEVITATION
TYMPANOGEN INC 409 CONNECTICUT AVE NORFOLK, VA 23508	36-4821323		76,320				IMPROVES THE PROCESS OF ANTIBIOTIC RELEASE FROM A NOVEL PATCH TO TREAT WOUNDS AND REDUCE OCCURRENCE AND SEVERITY OF SEPSIS, OR SYSTEMIC INFLAMMATION

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
UNITED STATES ARMY CENTER FOR ENVIRONMENTAL HEALTH 568 DOUGHTEN DRIVE FORT DETRICK, MD 21702	35-1996956		15,000				IDENTIFIES THE MOLECULAR FOUNDATIONS OF TISSUE HEALING THAT ARE VULNERABLE TO SPACEFLIGHT-INDUCED STRESS, POTENTIALLY REVEALING BIOLOGICALLY RELEVANT PATHWAYS FOR WOUND HEALING THERAPIES
UNIVERSITY OF ALASKA PO BOX 141628 ANCHORAGE, AK 995141628	92-6000147	501(C)(3)	74,339				EXAMINES GENETICALLY ENGINEERED E COLI IN MICROGRAVITY TO UNDERSTAND METABOLIC PATHWAYS INVOLVED IN BACTERIAL PRODUCTION OF ISOBUTENE, USED IN PETROCHEMICAL PROCESSES

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
UNIVERSITY OF PITTSBURGH PO BOX 371220 PITTSBURGH, PA 152517220	25-0965591	501(C)(3)	77,726				EVALUATES POTENTIAL THERAPIES TO TREAT AND PREVENT OSTEOPOROSIS AND OTHER MUSCULOSKELETAL DISORDERS VIA A MICROPHYSIOLOGICAL SYSTEM THAT MODELS HUMAN TISSUE
UNIVERSITY OF TOLEDO PO BOX 72327 CLEVELAND, OH 44192	34-6401483	501(C)(3)	68,549				PRODUCES LARGER AND HIGHER-QUALITY CRYSTALS OF THREE MEDICALLY RELEVANT PROTEINS, TOWARD STRUCTURE DETERMINATION OF THE PROTEINS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
PHYSICAL SCIENCE GRANTS							PHYSICAL SCIENCES
CEMISCA LLC 2800 KIRBY DR APT A601 HOUSTON, TX 77098	82-1935338		110,000				IMPROVES DESIGN AND MANUFACTURE OF COST-EFFECTIVE MEMBRANES FOR USE IN FOSSIL-FUEL POWER PLANTS AND GAS SEPARATION TECHNOLOGIES, TOWARD REDUCED GREENHOUSE GAS EMISSIONS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
COLGATE PALMOLIVE COMPANY 909 RIVER ROAD PISCATAWAY NJ, NJ 08855	13-1815595		122,745				USES A MICROFLUIDIC DEVICE TO CREATE BACTERIAL BIOFILMS THAT SIMULATE DENTAL PLAQUE GROWING ON AN ENAMEL SURFACE TO EXAMINE THE MOLECULAR CHARACTERISTICS OF A HEALTHY AND DISEASED ORAL MICROBIOME (COMMUNITY OF MICROBES IN THE ORAL CAVITY)
ECLIPSE ENERGY SYSTEMS INC 2345 ANVIL STREET NORTH ST PETERSBURG FL, FL 33710	59-3269075		29,987				EXAMINES HOW VARIABLE EMISSIVITY DEVICES, WHICH ARE USED AS AN ENERGY- SAVING ROOFING TECHNOLOGY, FUNCTION IN THE HARSH ENVIRONMENT OF SPACE

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
GEORGIA TECH APPLIED RESEARCH CORPORATION PO BOX 277004 ATLANTA GA, GA 303847004	58-0603146	501(C)(3)	99,763				TESTS A NOVEL MATERIAL FOR SOLAR CELLS USING CARBON NANOTUBES THAT IMPROVES COST EFFECTIVENESS AND ENERGY EFFICIENCY AND COULD IMPROVE THE PHOTOVOLTAIC CELLS FEEDING THE U S ELECTRICAL GRID
ILLINOIS INSTITUTE OF TECHNOLOGY LOCKBOX NUMBER 777562 7562 SOLUTION CENTER CHICAGO IL, IL 606777005	36-2170136	501(C)(3)	34,100				SYNTHESIZES NEW TYPES OF SEMICONDUCTOR CRYSTALS ON THE ISS THAT ARE NONTOXIC AND CAN BE GROWN AT A FASTER RATE THAN OTHER SEMICONDUCTOR MATERIALS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
LUX LABS INC 625 MASSACHUSETTS AVENUE FLOOR 2 CAMBRIDGE, MA 02139	82-1738089		39,280				TESTS CONDITIONS FOR THE MANUFACTURE OF AN OPTICAL MATERIAL WITH THE ABILITY TO CONTROL LIGHT BASED ON THE ANGLE OF PROPAGATION, WHICH HAS APPLICATIONS IN OPTICAL FILMS, SOLAR POWER, AND ELECTRONIC DISPLAYS
THE METHODIST HOSPITAL RESEARCH INSTITUTE PO BOX 4805 HOUSTON, TX 772104805	87-0721923	501(C)(3)	19,858				LEVERAGES THE EXTREME ENVIRONMENT OF SPACE TO TEST THE PERFORMANCE OF FIVE PROPRIETARY CARBON FIBER MATERIALS, INCLUDING FORGED AND 3D-PRONTEd CARBON FIBER COMPOSITES, DEVELOPED BY AUTOMOBILI LAMBORGHINI FOR AEROSPACE APPLICATIONS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
UNIVERSITY OF FLORIDA CFO - CONTRACTS AND GRANTS PO BOX 113001 GAINESVILLE, FL 62611	59-6002052	501(C)(3)	93,100				THIS PROJECT SEEKS TO TEST ELECTROCHEMICAL DEPOSITION, A PROCESS USED TO FORM THIN METAL FEATURES ON CONDUCTIVE SURFACES TO SEE WHETHER BETTER STRUCTURES CAN BE ACHIEVED
UNIVERSITY OF NOTRE DAME RSPA 836A GRACE HALL NOTRE DAME, IN 46556	35-0868188	501(C)(3)	73,567				STUDIES THE FUNDAMENTAL RELATIONSHIP BETWEEN THE GEOMETRY AND PROCESS OF BUBBLE FORMATION DURING EVAPORATION IN NANOPARTICLES, A PROCESS THAT MAY ENABLE FUTURE DRUG DEVELOPMENT, WATER PURIFICATION, AND OTHER DIVERSE PURSUITS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
ZAIPUT FLOW TECHNOLOGIES LLC 4 GORDON PLACE CAMBRIDGE, MA 02139	46-1455101		7,000				EXPLORES THE EFFECTS OF GRAVITY ON A NOVEL DEVICE FOR CONTINUOUS SEPARATION OF IMMISCIBLE LIQUIDS THAT COULD BE SCALED UP FOR USE IN CHEMICAL PRODUCTION
REMOTE SENSING GRANTS							REMOTE SENSING

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
ADCOLE MARYLAND AEROSPACE LLC 699 FOREST STREET MARLBOROUGH, MA 07156	82-0977698		23,982				CONTINUES DATA PROCESSING AND DISTRIBUTION FROM THE GLOBAL AIS ON SPACE STATION (GLASS) HARDWARE ON THE ISS, USED TO MONITOR WORLDWIDE SHIPPING TRAFFIC, AND EXPANDS COMMERCIALIZATION OF THE PAYLOAD
ORBITAL SIDEKICK INC 1281 6TH AVENUE SAN FRANCISCO, CA 94122	81-1401426		25,000				UTILIZES THE NANORACKS EXTERNAL PLATFORM TO VALIDATE THE TECHNICAL FEASIBILITY AND FIDELITY OF OPERATING A COMPACT, COMMERCIAL, HYPERSPECTRAL, REMOTE SENSING SYSTEM IN LOW EARTH ORBIT

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
UPSTREAM PBC INC 24001 MONARCH ST ALAMEDA, CA 94501	81-1530027		89,968				LEVERAGES REMOTE SENSING DATA FROM THE ISS TO EXPAND THE CAPABILITIES OF A PLATFORM ENABLING AUTOMATED MONITORING AND ANALYSIS OF COTTON PRODUCTION-RELATED WATER USE
VISIDYNE INC 111 SOUTH BEDFORD STREET SUITE 103 BURLINGTON, MA 01803	04-2453227		26,284				USES IMAGES OF TROPICAL CYCLONES TAKEN FROM THE ISS TO IMPROVE STORM MODELING AND PROVIDE HIGHER-ACCURACY INTENSITY MEASUREMENTS AND PATH PREDICTIONS OF TROPICAL CYCLONES, TOWARD SAVING LIVES AND MINIMIZING DESTRUCTION

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
TECHNOLOGY DEVELOPMENT GRANTS							TECHNOLOGY DEVELOPMENT
BOSTON UNIVERSITY PO BOX 28763 NEW YOR, NY 100988763	04-2103547	501(C)(3)	28,747				THIS PROJECT SUPPORTS THE DEVELOPMENT AND INSTALLATION OF A FLOW CHEMISTRY CUBELAB PLATFORM ON THE ISS TO STUDY THE EFFECTS OF MICROGRAVITY ON A WIDE RANGE OF CHEMICAL REACTIONS

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.

(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
ORBIT FAB INC 2010 EL CAMINO REAL 622 SANTA CLARA, CA 26075	82-4126603		64,075				TESTS THE FUNCTIONALITY OF A TANKER THAT CAN REFUEL SPACECRAFT IN ORBIT FROM A COLLAPSIBLE FUEL TANK, WHICH CAN BE LAUNCHED COMPRESSED AND THEN FILLED IN ORBIT
THE BIONETICS CORPORATION 101 PRODUCTION DRIVE SUITE 100 YORKTOWN, VA 23693	95-2572691		6,958				THIS PROJECT SUPPORTS THE SECOND PHASE OF DEVELOPMENT FOR THE DESIGN, FABRICATION, QUALIFICATION, AND DELIVERY OF MODIFIED MITEGEN IN SITU-1 CRYSTALLIZATION PLATES FOR MICROGRAVITY RESEARCH

Form 990, Schedule I, Part II, Grants and Other Assistance to Domestic Organizations and Domestic Governments.							
(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
UBIQUITILINK INC 100 NORTH WASHINGTON STREET SUITE 200/202/204 FALLS CHURCH, VA 22046	82-1986972		154,050				SEEKS TO VERIFY AND VALIDATE THE TECHNICAL VIABILITY OF A SPACE-BASED CELL TOWER TO PROVIDE CELL ACCESS TO AREAS ON EARTH THAT CURRENTLY HAVE NO CONNECTIVITY TO GROUND-BASED TOWERS, WITH THE POTENTIAL TO ENABLE REAL-TIME GLOBAL CELLULAR COMMUNICATIONS ANYWHERE ON EARTH
PRIOR YEAR REFUNDS			-15,545				PRIOR YEAR REFUNDS

Schedule J (Form 990)	<div>Compensation Information</div> <div>For certain Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees</div> <div>▶ Complete if the organization answered "Yes" on Form 990, Part IV, line 23. ▶ Attach to Form 990.</div> <div>▶ Go to www.irs.gov/Form990 for instructions and the latest information.</div>	OMB No 1545-0047
		2018
		Open to Public Inspection

Department of the Treasury Internal Revenue Service	Name of the organization CENTER FOR THE ADVANCEMENT OF SCIENCE IN SPACE INC	Employer identification number 27-5410763
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Part I	Questions Regarding Compensation	Yes	No
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. <div><div><input type="checkbox"/> First-class or charter travel</div><div><input type="checkbox"/> Travel for companions</div><div><input type="checkbox"/> Tax indemnification and gross-up payments</div><div><input type="checkbox"/> Discretionary spending account</div><div><input type="checkbox"/> Housing allowance or residence for personal use</div><div><input type="checkbox"/> Payments for business use of personal residence</div><div><input type="checkbox"/> Health or social club dues or initiation fees</div><div><input type="checkbox"/> Personal services (e.g., maid, chauffeur, chef)</div></div>		
b	If any of the boxes in 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	1b	
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 in line 1a?	2	Yes
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. <div><div><input checked="" type="checkbox"/> Compensation committee</div><div><input checked="" type="checkbox"/> Independent compensation consultant</div><div><input checked="" type="checkbox"/> Form 990 of other organizations</div><div><input checked="" type="checkbox"/> Written employment contract</div><div><input checked="" type="checkbox"/> Compensation survey or study</div><div><input checked="" type="checkbox"/> Approval by the board or compensation committee</div></div>		
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: <div>a Receive a severance payment or change-of-control payment?</div> <div>b Participate in, or receive payment from, a supplemental nonqualified retirement plan?</div> <div>c Participate in, or receive payment from, an equity-based compensation arrangement?</div> <div>If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.</div>	4a 4b 4c	Yes No No
	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: <div>a The organization?</div> <div>b Any related organization?</div> <div>If "Yes," on line 5a or 5b, describe in Part III.</div>	5a 5b	No No
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: <div>a The organization?</div> <div>b Any related organization?</div> <div>If "Yes," on line 6a or 6b, describe in Part III.</div>	6a 6b	No No
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.	7	No
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.	8	No
9	If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in Regulations section 53.4958-6(c)?	9	

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.

See Additional Data Table**Schedule J (Form 990) 2018**

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 4A	SEVERANCE PAID JORGE FERNANDEZ- \$81,667 C RANDY GILES- \$80,292 BRIAN TALBOT- \$55,669



Additional Data

Software ID:
Software Version:
EIN: 27-5410763
Name: CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC

Form 990, Schedule J, Part II - Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

(A) Name and Title		(B) Breakdown of W-2 and/or 1099-MISC compensation			(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				
GREGORY H JOHNSON PRESIDENT & EXECUTIVE DIRE	(i)	213,714	0	0	3,924	4,286	221,924	0
	(ii)	0	0	0	0	0	0	0
JORGE FERNANDEZ TREASURER & CHIEF FINANCIA	(i)	234,139	0	0	10,810	16,834	261,783	0
	(ii)	0	0	0	0	0	0	0
JOSEPH G VOCKLEY CEO AND PRESIDENT	(i)	201,263	0	0	4,950	8,571	214,784	0
	(ii)	0	0	0	0	0	0	0
JOSEPH H HASTINGS TREASURER	(i)	132,425	0	0	8,446	16,017	156,888	0
	(ii)	0	0	0	0	0	0	0
KENNETH SHIELDS VICE PRESIDENT & DIRECTOR OF OPERATI	(i)	193,020	0	0	11,745	23,165	227,930	0
	(ii)	0	0	0	0	0	0	0
MELODY KUEHNER SECRETARY & DIRECTOR OF HR	(i)	186,483	0	0	11,788	23,514	221,785	0
	(ii)	0	0	0	0	0	0	0
BRIAN TALBOT DIRECTOR OF MARKETING & COMMUNICATIO	(i)	167,006	0	0	10,020	1,433	178,459	0
	(ii)	0	0	0	0	0	0	0
C RANDY GILES CHIEF SCIENTIST	(i)	237,855	0	0	14,453	9,514	261,822	0
	(ii)	0	0	0	0	0	0	0
CYNTHIA TOCCO DIRECTOR OF BUSINESS DEVEL	(i)	155,744	0	0	9,614	16,017	181,375	0
	(ii)	0	0	0	0	0	0	0
MICHAEL ROBERTS DEPUTY CHIEF SCIENTIST	(i)	184,556	0	0	11,690	23,202	219,448	0
	(ii)	0	0	0	0	0	0	0
WARREN BATES DIRECTOR OF PORTFOLIO MANA	(i)	202,426	0	0	12,648	21,467	236,541	0
	(ii)	0	0	0	0	0	0	0

SCHEDULE O
(Form 990 or 990-EZ)

Department of the Treasury

Name of the organization

CENTER FOR THE ADVANCEMENT OF
SCIENCE IN SPACE INC**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.

OMB No 1545-0047

2018**Open to Public
Inspection****Employer identification number**

27-5410763

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 11B	THE FORM 990 IS REVIEWED BY THE BOARD OF DIRECTORS BEFORE IT IS FILED

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 12C	ANNUAL CERTIFICATIONS ARE MADE

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION B, LINE 15	THE COMPENSATION COMMITTEE USED THIRD PARTY DATA FOR COMPARABLES FOR CASIS'S CEO AND EXECUTIVE DIRECTOR, CHIEF FINANCIAL OFFICER, SECRETARY, AND DIRECTOR OF HUMAN RESOURCES

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VI, SECTION C, LINE 19	THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS AND FINANCIAL STATEMENTS AVAILABLE TO THE PUBLIC UPON REQUEST

990 Schedule O, Supplemental Information

Return Reference	Explanation
FORM 990, PART VII, SECTION A	IN ADDITION TO GOVERNANCE RESPONSIBILITIES, BOARD MEMBERS CONTRIBUTE SUBJECT MATTER AND PROCESS EXPERTISE AND PROFESSIONAL NETWORKS NEEDED BY AND UNAVAILABLE WITHIN THE MANAGEMENT TEAM TO ACCOMPLISH THE MISSION OF CASIS

990 Schedule O, Supplemental Information

Return Reference	Explanation
PART X LINE 27 AND 29	LINE 27 IS NET ASSETS WITHOUT DONOR RESTRICTIONS AND LINE 29 IS NET ASSETS WITH DONOR RESTRICTIONS