	17771 27 0 4 0 T		nnr1 02 2 01 G
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	0	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$111,400.00
Date Signed:	Aug 23, 2012	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	3	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Feb 27, 2013	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	s
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED
			RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	
	541712 PASADENA	NAICS Description: Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	PASADENA 911098001	Entity State: Additional Reporting Code:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID.	NNN13R942T	Reference IDV:	NININ 1 2 7 7 0 1 C
Contract ID:			NNN12AA01C
Modification Number:	1	Transaction Number:	
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$166,782.72
Date Signed:	Nov 9, 2012	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	2	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Dec 20, 2012	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE:
			SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	(APPLIED RESEARCH/EXPLORATORY
NAICS: Entity City:	541712 PASADENA	NAICS Description: Entity State:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	PASADENA 911098001	Entity State: Additional Reporting Code:	(APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	14	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$189,100.00
Date Signed:	Aug 21, 2017	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	23835
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	5	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$270,163.00
Date Signed:	Jul 29, 2013	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	s
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 PASADENA	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	PASADENA 911098001	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	17	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	-\$63,909.92
Date Signed:	Jan 31, 2019	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	23835
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	8	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:	Jul 28, 2014	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
	U2JMKHNS5TG4	Ultimate Parent Legal	CALIFORNIA INSTITUTE OF
Ultimate Parent Unique Entity ID:	020MMMS51G4	Business Name:	TECHNOLOGY

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	10	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$467,907.00
Date Signed:	Sep 25, 2014	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	13	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$4,301.03
Date Signed:	Aug 18, 2016	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	PSC Type:	s
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY
			DEVELOPMENT)
NAICS:	541712	NAICS Description:	
NAICS: Entity City:	541712 PASADENA	NAICS Description: Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
			DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Entity City:	PASADENA 911098001	Entity State: Additional Reporting Code:	DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	6	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$205,477.00
Date Signed:	Sep 10, 2013	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	11	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,200,897.00
Date Signed:	Jul 7, 2015	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
			DEVELOPMENT /
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 PASADENA	NAICS Description: Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
NAICS: Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	PASADENA 911098001	Entity State: Additional Reporting Code:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	12	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$1,005,818.00
Date Signed:	Jul 27, 2016	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	15	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$745,315.33
			_
Date Signed:	Dec 20, 2017	Solicitation Date:	
Date Signed: Contracting Agency ID:	Dec 20, 2017 8000	Solicitation Date: Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Agency ID:	NASA MANAGEMENT OFFICE	Contracting Agency:	SPACE ADMINISTRATION
Contracting Agency ID: Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	Contracting Agency: PSC Type:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY
Contracting Agency ID: Contracting Office Name: PSC:	NASA MANAGEMENT OFFICE JPL AR22	Contracting Agency: PSC Type: PSC Description:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Contracting Agency ID: Contracting Office Name: PSC: NAICS:	8000 NASA MANAGEMENT OFFICE JPL AR22 541712	Contracting Agency: PSC Type: PSC Description: NAICS Description:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Contracting Agency ID: Contracting Office Name: PSC: NAICS: Entity City:	8000 NASA MANAGEMENT OFFICE JPL AR22 541712 PASADENA	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Contracting Agency ID: Contracting Office Name: PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	8000 NASA MANAGEMENT OFFICE JPL AR22 541712 PASADENA 911098001	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA -

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	16	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$170,622.00
Date Signed:	Jun 4, 2018	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	PSC Type:	s
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	23835
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	18	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$0.00
Date Signed:		Solicitation Date:	_
_	Mar 28, 2019	Solicitation Date:	
Contracting Agency ID:	Mar 28, 2019 8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Agency ID:	NASA MANAGEMENT OFFICE	Contracting Agency:	SPACE ADMINISTRATION
Contracting Agency ID: Contracting Office Name:	NASA MANAGEMENT OFFICE JPL	Contracting Agency: PSC Type:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY
Contracting Agency ID: Contracting Office Name: PSC:	NASA MANAGEMENT OFFICE JPL AR22	Contracting Agency: PSC Type: PSC Description:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Contracting Agency ID: Contracting Office Name: PSC: NAICS:	8000 NASA MANAGEMENT OFFICE JPL AR22 541712	Contracting Agency: PSC Type: PSC Description: NAICS Description:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Contracting Agency ID: Contracting Office Name: PSC: NAICS: Entity City:	8000 NASA MANAGEMENT OFFICE JPL AR22 541712 PASADENA	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA
Contracting Agency ID: Contracting Office Name: PSC: NAICS: Entity City: Entity ZIP Code: Additional Reporting	8000 NASA MANAGEMENT OFFICE JPL AR22 541712 PASADENA 911098001	Contracting Agency: PSC Type: PSC Description: NAICS Description: Entity State: Additional Reporting Code:	SPACE ADMINISTRATION S R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT) RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA -

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	4	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$119,861.00
Date Signed:	Mar 21, 2013	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	_
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-
Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	7	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$70,754.00
Date Signed:	May 1, 2014	Solicitation Date:	_
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
	541712 PASADENA	NAICS Description: Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT
Entity City:			IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting	PASADENA	Entity State:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City: Entity ZIP Code: Additional Reporting Description: Ultimate Parent Unique Entity ID:	PASADENA 911098001	Entity State: Additional Reporting Code:	IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY) CA

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Contract ID:	NNN13R942T	Reference IDV:	NNN12AA01C
Modification Number:	9	Transaction Number:	0
Award/IDV Type:	DO Delivery Order	Action Obligation (\$):	\$758,386.00
Date Signed:	Aug 11, 2014	Solicitation Date:	-
Contracting Agency ID:	8000	Contracting Agency:	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Contracting Office Name:	NASA MANAGEMENT OFFICE	PSC Type:	S
PSC:	AR22	PSC Description:	R&D- SPACE: SCIENCE/APPLICATIONS (APPLIED RESEARCH/EXPLORATORY DEVELOPMENT)
NAICS:	541712	NAICS Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)
Entity City:	PASADENA	Entity State:	CA
Entity ZIP Code:	911098001	Additional Reporting Code:	-
Additional Reporting Description:	-	Unique Entity ID:	YC1YP79BFD19
Ultimate Parent Unique Entity ID:	U2JMKHNS5TG4	Ultimate Parent Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Legal Business Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY	CAGE Code:	-

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