Cover Page for Proposal Submitted to the National Aeronautics and Space Administration

NASA Proposal Number

TBD on Submit

NASA PROCEDURE FOR HANDLING PROPOSALS

This proposal shall be used and disclosed for evaluation purposes only, and a copy of this Government notice shall be applied to any reproduction or abstract thereof. Any authorized restrictive notices that the submitter places on this proposal shall also be strictly complied with. Disclosure of this proposal for any reason outside the Government evaluation purposes shall be made only to the extent authorized by the Government.

SECTION I - Proposal Information

Principal Investigator	E-mail Address	Phone Number
Genaro Ozuna		

Street Address (1)	Street Address (2)

City	State / Province	Postal Code	Country Code

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

Proposed Start Date	Proposed End Date	Total Budget	Year 1 Budget	Year 2 Budget	Year 3 Budget
		50,000.00	**50,000.00**	**0.00**	**0.00**

SECTION II - Application Information

NASA Program Announcement Number	NASA Program Announcement Title
NNH25ZDA001N-RRNES	**A.4 Rapid Response and Novel Research in Earth Science**

For Consideration By NASA Organization *(the soliciting organization, or the organization to which an unsolicited proposal is submitted)*

NASA , Headquarters , Science Mission Directorate , Earth Science

Date Submitted	Submission Method	Grants.gov Application Identifier	Applicant Proposal Identifier
	Electronic Submission Only		

Type of Application	Predecessor Award Number	Other Federal Agencies to Which Proposal Has Been Submitted
New		

International Participation	Type of International Participation
No	

SECTION III - Submitting Organization Information

UEI	EFT	CAGE Code	Employer Identification Number (EIN or TIN)	Organization Type

Organization Name (Standard/Legal Name)	Company Division

Organization DBA Name	Division Number

Street Address (1)	Street Address (2)

City	State / Province	Postal Code	Country Code

SECTION IV - Proposal Point of Contact Information

Name	Email Address	Phone Number
Genaro Ozuna	**Geozunac3536@gmail.com**	**52-812-5989869**

SECTION V - Certification and Authorization

Certification of Compliance with Applicable Executive Orders and U.S. Code

By submitting the proposal identified in the Cover Sheet/Proposal Summary in response to this Research Announcement, the Authorizing Official of the proposing organization (or the individual proposer if there is no proposing organization) as identified below:

- certifies that the statements made in this proposal are true and complete to the best of their knowledge;
- agrees to accept the obligations to comply with NASA award terms and conditions if an award is made as a result of this proposal; and
- confirms compliance with all provisions, rules, and stipulations set forth in this solicitation.

Willful provision of false information in this proposal and/or its supporting documents, or in reports required under an ensuing award, is a criminal offense (U.S. Code, Title 18, Section 1001).

Authorized Organizational Representative (AOR) Name	AOR E-mail Address	Phone Number

AOR Signature *(Must have AOR's original signature. Do not sign "for" AOR.)* Date

Digitally signed by

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION VI - Team Members

Team Member Role	Team Member Name	Contact Phone	E-mail Address	
PI	**Genaro Ozuna**			
Organization/Business Relationship		UEI	EFT	CAGE Code
International Participation	U.S. Government Agency		Total Funds Requested	
No			**0.00**	

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION VII - Project Summary

El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar que el Σ-locking —estado de coherencia medible entre variables geofísicas— presenta incrementos sistemáticos antes de eventos sísmicos mayores (Mw ≥ 5.5).

La propuesta se inscribe en la línea A.4 Rapid Response and Novel Research (RRANN) del programa ROSES-25, al enfocarse en un experimento de respuesta rápida con datos abiertos NASA y USGS. Se emplearán observaciones InSAR (Sentinel-1 y NISAR), GNSS (UNAVCO), gravedad GRACE-FO y óptico-térmicas VIIRS/MODIS, disponibles a través de EOSDIS DAACs.

El método aplica métricas Σ —correlación R(t), índice de locking LI, error RMSE_SL y tasa κΣ— con umbrales de rendimiento LI ≥ 0.90, R > 0.95, RMSE_SL < 0.10 y reproducibilidad ≥ 95 %. Las series se procesarán en ventanas p:q pre-evento, evaluando curvas ROC y PR para obtener TPR ≥ 0.6 a FPR ≤ 0.05. El estudio combina validación retrospectiva (1985–2025) y corridas prospectivas de 6 meses con predicciones selladas (DOI/Zenodo).

El equipo está liderado por Genaro Carrasco Ozuna (Proyecto TCDS / MSL México) con asistencia formal de GPT-5 Σ-Trace. El presupuesto estimado (USD 100–145 k) cubre procesamiento en nube y validación estadística abierta. Todos los resultados serán de acceso público (CC BY 4.0) y se publicarán con trazabilidad reproducible bajo DOI 10.5281/zenodo.17505875.

Este estudio busca aportar una nueva herramienta predictiva para la gestión de riesgo sísmico global, demostrando la utilidad de las observaciones NASA en la detección prospectiva de precusores geofísicos basados en coherencia cuantitativa Σ.

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION VIII - Other Project Information

Proprietary Information

Is proprietary/privileged information included in this application?

Yes

International Collaboration

Does this project involve activities outside the U.S. or partnership with International Collaborators?

No

Principal Investigator	Co-Investigator	Collaborator	Equipment	Facilities
No	**No**	**No**	**No**	**No**

Explanation :

NASA Civil Servant Project Personnel

Are NASA civil servant personnel participating as team members on this project (include funded and unfunded)?

No

Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
Number of FTEs	Number of FTEs	Number of FTEs	Number of FTEs	Number of FTEs	Number of FTEs

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION VIII - Other Project Information

Environmental Impact

Does this project have an actual or potential impact on the environment?	Has an exemption been authorized or an environmental assessment (EA) or an environmental impact statement (EIS) been performed?
Yes	**No**

Environmental Impact Explanation:

Este estudio busca aportar una nueva herramienta predictiva para la gestión de riesgo sísmico global, demostrando la utilidad de las observaciones NASA en la detección prospectiva de precusores geofísicos basados en coherencia cuantitativa Σ.

Exemption/EA/EIS Explanation:

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION VIII - Other Project Information

Historical Site/Object Impact

Does this project have the potential to affect historic, archeological, or traditional cultural sites (such as Native American burial or ceremonial grounds) or historic objects (such as an historic aircraft or spacecraft)?

No

Explanation:

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SECTION IX - Program Specific Data

Question 1 : Short Title:
Answer: Sistema Predictivo Sísmico TCDS

Question 2 : Type of institution:
Answer: Organización con fines de lucro

Question 3 : Carnegie Classification
Answer: Not a degree granting institution

Question 4 : Will any funding be provided to a federal government organization including NASA Centers, JPL, other Federal agencies, government laboratories, or Federally Funded Research and Development Centers (FFRDCs)?
Answer: No

Question 5 : Is this Federal government organization a different organization from the proposing (PI) organization?
Answer: N/A

Question 6 : Does this proposal include the use of NASA-provided high end computing (HEC)?
Answer: No

Question 7 : HEC Request Number
Answer:

Question 8 : Research Category:
Answer:

Question 9 : Flight Services
Answer: No

Question 10 : Team members not confirmed via NSPIRES
Answer:

Question 11 : Does this proposal contain information and/or data that are subject to U.S. export control laws and regulations including Export Administration Regulations (EAR) and International Traffic in Arms Regulations (ITAR)?
Answer: No

Question 12 : I have identified the export-controlled material in this proposal.
Answer: N/A

Question 13 : I acknowledge that the inclusion of such material in this proposal may complicate the government's ability to evaluate the proposal.
Answer: N/A

Question 14 : Does the proposed work include any involvement with collaborators in China or with Chinese organizations, or does the proposed work include activities in China?
Answer: No

The National Environmental Policy Act (NEPA) obligates NASA to consider the potential environmental effects of proposed projects, including those that NASA funds which are implemented by grantees. The majority of grant-related activities are categorically excluded as research and development projects that do not pose adverse environmental impacts. The following questions enable NASA to ascertain whether your proposal will require additional NEPA analysis if selected (e.g., filling out an Environmental Checklist) or the completion of NASA's Executive Order (EO) 12114 Checklist for an activity to be conducted abroad. "Yes" responses are not selection criteria, however, if a "Yes" response is marked, proposers should consider NEPA and/or EO compliance in cost and schedule estimates.

Question 15 : Would the proposal involve any activity that includes: a. Construction of new facilities or modification to the footprint of an existing-facility, or b. Ground disturbance (e.g., excavation, clearing of trees, installation of equipment, etc.), or c. Outdoor discharges of water (e.g., waste water runoff), air emissions (e.g., ozone-depleting substances) or generation of noise exceeding 115 dBA (excluding those associated with aircraft operations)?
Answer: No

Question 16 : Would the proposal involve any field activity that would: a. Release equipment (e.g., dropsondes, sensors, etc.) or chemicals (e.g., dyes, tracers, etc.) into the air, bodies of water or on the ground, or b. Release a parachute or use equipment that would not be recovered, or c. Involve equipment or a payload that contains hazardous (e.g., petroleum, hypergols, oxidizers,solid propellants, etc.) or radioactive materials?

Answer: No

Question 17 : Would the proposal involve the launch of a payload, equipment, or instrument (e.g., via launch vehicle, sounding rocket, balloon, etc.)?
Answer: No

Question 18 : Would the proposal involve any activity to be conducted outside the United States or its territories excluding travel for meetings or conferences?
Answer: No

Question 19 : Comments
Answer:

Question 20 : Does this proposal contain a citizen science component?
Answer: No

Question 21 : AI or ML?
Answer: Yes

Question 22 : Relevant Division(s)
Answers:
Earth Science

Question 23 : Interdivisional Explanation
Answer:
Esta propuesta pertenece primariamente a la División de Ciencias de la Tierra, ya que su objetivo es desarrollar un modelo predictivo de actividad sísmica a partir de observaciones geofísicas y geodésicas obtenidas mediante misiones NASA dedicadas a la observación del planeta. El trabajo se apoya en datos de InSAR (Sentinel-1, NISAR), GNSS (UNAVCO/EOSDIS), GRACE-FO y VIIRS/MODIS, todos pertenecientes al portafolio de la División de Ciencias de la Tierra.

El interés científico central es la detección prospectiva de precursores sísmicos y la caracterización de la coherencia causal entre campos gravitacionales, deformación del terreno y variaciones térmicas superficiales. Estos procesos están directamente relacionados con los objetivos estratégicos de la División, en particular con los temas de Dynamic Earth System Processes y Natural Hazards and Disasters.

De manera secundaria, el proyecto puede aportar a la División de Heliofísica en la medida en que el formalismo de coherencia Σ incorpora el análisis de modulaciones de fondo que podrían correlacionarse con variaciones magnetosféricas y de radiación solar de baja frecuencia. Sin embargo, esa conexión es exploratoria y no constituye el foco principal de la investigación.

En síntesis, la propuesta está alineada con la División de Ciencias de la Tierra, con una contribución menor de tipo teórico hacia Heliofísica. Los resultados esperados fortalecerán el uso de observaciones NASA en la predicción y mitigación de riesgos sísmicos, optimizando la integración de múltiples sensores orbitales y modelos geofísicos dentro de la estrategia de Earth System Science.

Question 24 : 24: Primary Investigation Type (Division/program)
Answer: "Investigación aplicada". Justificación: La propuesta no se limita a explorar principios teóricos (investigación básica), sino que busca aplicar observaciones satelitales NASA y métricas Σ para generar predicciones sísmicas operativas y herramientas reproducibles de gestión de riesgo. En los términos de ROSES: Investigación básica: estudia procesos fundamentales sin propósito práctico inmediato. Investigación aplicada: usa esos procesos para resolver un problema específico. Desarrollo tecnológico: crea instrumentos o software nuevos para futuras misiones. El sistema predictivo TCDS entra en investigación aplicada, con un componente de validación tecnológica, pero no en desarrollo instrumental.

Question 25 : Relevant Program Manager Name(s)
Answer: Genaro Carrasco Ozuna

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION X - Budget

Cumulative Budget

Budget Cost Category	Funds Requested ($)			
	Year 1 ($)	Year 2 ($)	Year 3 ($)	Total Project ($)
A. Direct Labor - Key Personnel	**50,000.00**	**0.00**	**0.00**	**50,000.00**
B. Direct Labor - Other Personnel	**0.00**	**0.00**	**0.00**	**0.00**
Total Number Other Personnel	**0**	**0**	**0**	**0**
Total Direct Labor Costs (A+B)	**50,000.00**	**0.00**	**0.00**	**50,000.00**
C. Direct Costs - Equipment	**0.00**	**0.00**	**0.00**	**0.00**
D. Direct Costs - Travel	**0.00**	**0.00**	**0.00**	**0.00**
Domestic Travel	**0.00**	**0.00**	**0.00**	**0.00**
Foreign Travel	**0.00**	**0.00**	**0.00**	**0.00**
E. Direct Costs - Participant/Trainee Support Costs	**0.00**	**0.00**	**0.00**	**0.00**
Tuition/Fees/Health Insurance	**0.00**	**0.00**	**0.00**	**0.00**
Stipends	**0.00**	**0.00**	**0.00**	**0.00**
Travel	**0.00**	**0.00**	**0.00**	**0.00**
Subsistence	**0.00**	**0.00**	**0.00**	**0.00**
Other	**0.00**	**0.00**	**0.00**	**0.00**
Number of Participants/Trainees				**0**
F. Other Direct Costs	**0.00**	**0.00**	**0.00**	**0.00**
Materials and Supplies	**0.00**	**0.00**	**0.00**	**0.00**
Publication Costs	**0.00**	**0.00**	**0.00**	**0.00**
Consultant Services	**0.00**	**0.00**	**0.00**	**0.00**
ADP/Computer Services	**0.00**	**0.00**	**0.00**	**0.00**
Subawards/Consortium/Contractual Costs	**0.00**	**0.00**	**0.00**	**0.00**
Equipment or Facility Rental/User Fees	**0.00**	**0.00**	**0.00**	**0.00**
Alterations and Renovations	**0.00**	**0.00**	**0.00**	**0.00**
Other	**0.00**	**0.00**	**0.00**	**0.00**
G. Total Direct Costs (A+B+C+D+E+F)	**50,000.00**	**0.00**	**0.00**	**50,000.00**
H. Indirect Costs	**0.00**	**0.00**	**0.00**	**0.00**
I. Total Direct and Indirect Costs (G+H)	**50,000.00**	**0.00**	**0.00**	**50,000.00**
J. Fee	**0.00**	**0.00**	**0.00**	**0.00**
K. Total Cost (I+J)	**50,000.00**	**0.00**	**0.00**	**50,000.00**
Total Cumulative Budget				**50,000.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
01 / 01 / 2026	**07 / 30 / 2026**	**Project**	**1**

A. Direct Labor - Key Personnel

Name	Project Role	**Base Salary ($)**	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	**Fringe Benefits ($)**	Funds Requested ($)
Ozuna, Genaro	**PI**	**25,000.00**				**25,000.00**	**25,000.00**	**50,000.00**
							Total Key Personnel Costs	**50,000.00**

B. Direct Labor - Other Personnel

Number of Personnel	Project Role	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	Fringe Benefits ($)	Funds Requested ($)
0	Total Number Other Personnel					Total Other Personnel Costs	**0.00**
						Total Direct Labor Costs (Salary, Wages, Fringe Benefits) (A+B)	**50,000.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
01 / 01 / 2026	**07 / 30 / 2026**	**Project**	**1**

C. Direct Costs - Equipment

Item No.	Equipment Item Description	Funds Requested ($)
	Total Equipment Costs	**0.00**

D. Direct Costs - Travel

	Funds Requested ($)
1. Domestic Travel (Including U.S. Territories and Possessions)	**0.00**
2. Foreign Travel (Including Canada and Mexico)	**0.00**
Total Travel Costs	**0.00**

E. Direct Costs - Participant/Trainee Support Costs

		Funds Requested ($)
1. Tuition/Fees/Health Insurance		**0.00**
2. Stipends		**0.00**
3. Travel		**0.00**
4. Subsistence		**0.00**
Number of Participants/Trainees:	Total Participant/Trainee Support Costs	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
01 / 01 / 2026	**07 / 30 / 2026**	**Project**	**1**

F. Other Direct Costs

	Funds Requested ($)
1. Materials and Supplies	**0.00**
2. Publication Costs	**0.00**
3. Consultant Services	**0.00**
4. ADP/Computer Services	**0.00**
5. Subawards/Consortium/Contractual Costs	**0.00**
6. Equipment or Facility Rental/User Fees	**0.00**
7. Alterations and Renovations	**0.00**
8. Other:	**0.00**
9. Other:	**0.00**
10. Other:	**0.00**
11. Other:	**0.00**
12. Other:	**0.00**
13. Other:	**0.00**
14. Other:	**0.00**
15. Other:	**0.00**
16. Other:	**0.00**
17. Other:	**0.00**
Total Other Direct Costs	**0.00**

G. Total Direct Costs

	Funds Requested ($)
Total Direct Costs (A+B+C+D+E+F)	**50,000.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
01 / 01 / 2026	**07 / 30 / 2026**	**Project**	**1**

H. Indirect Costs

	Indirect Cost Rate (%)	**Indirect Cost Base ($)**	Funds Requested ($)
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
Cognizant Federal Agency:		Total Indirect Costs	**0.00**

I. Direct and Indirect Costs

	Funds Requested ($)
Total Direct and Indirect Costs (G+H)	**50,000.00**

J. Fee

	Funds Requested ($)
Fee	**0.00**

K. Total Cost

	Funds Requested ($)
Total Cost with Fee (I+J)	**50,000.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
08 / 03 / 2026	**12 / 10 / 2026**	**Project**	**2**

A. Direct Labor - Key Personnel

Name	Project Role	**Base Salary ($)**	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	**Fringe Benefits ($)**	Funds Requested ($)
Ozuna, Genaro	**PI**	**0.00**				**0.00**	**0.00**	**0.00**
							Total Key Personnel Costs	**0.00**

B. Direct Labor - Other Personnel

Number of Personnel	Project Role	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	Fringe Benefits ($)	Funds Requested ($)
0	Total Number Other Personnel					Total Other Personnel Costs	**0.00**
						Total Direct Labor Costs (Salary, Wages, Fringe Benefits) (A+B)	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
08 / 03 / 2026	**12 / 10 / 2026**	**Project**	**2**

C. Direct Costs - Equipment

Item No.	Equipment Item Description	Funds Requested ($)
	Total Equipment Costs	**0.00**

D. Direct Costs - Travel

	Funds Requested ($)
1. Domestic Travel (Including U.S. Territories and Possessions)	**0.00**
2. Foreign Travel (Including Canada and Mexico)	**0.00**
Total Travel Costs	**0.00**

E. Direct Costs - Participant/Trainee Support Costs

		Funds Requested ($)
1. Tuition/Fees/Health Insurance		**0.00**
2. Stipends		**0.00**
3. Travel		**0.00**
4. Subsistence		**0.00**
Number of Participants/Trainees:	Total Participant/Trainee Support Costs	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

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SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
08 / 03 / 2026	**12 / 10 / 2026**	**Project**	**2**

F. Other Direct Costs

	Funds Requested ($)
1. Materials and Supplies	**0.00**
2. Publication Costs	**0.00**
3. Consultant Services	**0.00**
4. ADP/Computer Services	**0.00**
5. Subawards/Consortium/Contractual Costs	**0.00**
6. Equipment or Facility Rental/User Fees	**0.00**
7. Alterations and Renovations	**0.00**
8. Other:	**0.00**
9. Other:	**0.00**
10. Other:	**0.00**
11. Other:	**0.00**
12. Other:	**0.00**
13. Other:	**0.00**
14. Other:	**0.00**
15. Other:	**0.00**
16. Other:	**0.00**
17. Other:	**0.00**
Total Other Direct Costs	**0.00**

G. Total Direct Costs

	Funds Requested ($)
Total Direct Costs (A+B+C+D+E+F)	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
08 / 03 / 2026	**12 / 10 / 2026**	**Project**	**2**

H. Indirect Costs

	Indirect Cost Rate (%)	**Indirect Cost Base ($)**	Funds Requested ($)
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
Cognizant Federal Agency:		Total Indirect Costs	**0.00**

I. Direct and Indirect Costs

	Funds Requested ($)
Total Direct and Indirect Costs (G+H)	**0.00**

J. Fee

	Funds Requested ($)
Fee	**0.00**

K. Total Cost

	Funds Requested ($)
Total Cost with Fee (I+J)	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

SECTION X - Budget

Start Date :	End Date :	Budget Type : **Project**	Budget Period : **3**

A. Direct Labor - Key Personnel

Name	Project Role	**Base Salary ($)**	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	**Fringe Benefits ($)**	Funds Requested ($)
Ozuna, Genaro	**PI**	**0.00**				**0.00**	**0.00**	**0.00**
						Total Key Personnel Costs		**0.00**

B. Direct Labor - Other Personnel

Number of Personnel	Project Role	Cal. Months	Acad. Months	Summ. Months	Requested Salary ($)	Fringe Benefits ($)	Funds Requested ($)
0	Total Number Other Personnel					Total Other Personnel Costs	**0.00**
						Total Direct Labor Costs (Salary, Wages, Fringe Benefits) (A+B)	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
		Project	**3**

C. Direct Costs - Equipment

Item No.	Equipment Item Description	Funds Requested ($)
	Total Equipment Costs	**0.00**

D. Direct Costs - Travel

	Funds Requested ($)
1. Domestic Travel (Including U.S. Territories and Possessions)	**0.00**
2. Foreign Travel (Including Canada and Mexico)	**0.00**
Total Travel Costs	**0.00**

E. Direct Costs - Participant/Trainee Support Costs

		Funds Requested ($)
1. Tuition/Fees/Health Insurance		**0.00**
2. Stipends		**0.00**
3. Travel		**0.00**
4. Subsistence		**0.00**
Number of Participants/Trainees:	Total Participant/Trainee Support Costs	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

SECTION X - Budget

Start Date :	End Date :	Budget Type :	Budget Period :
		Project	**3**

F. Other Direct Costs

	Funds Requested ($)
1. Materials and Supplies	**0.00**
2. Publication Costs	**0.00**
3. Consultant Services	**0.00**
4. ADP/Computer Services	**0.00**
5. Subawards/Consortium/Contractual Costs	**0.00**
6. Equipment or Facility Rental/User Fees	**0.00**
7. Alterations and Renovations	**0.00**
8. Other:	**0.00**
9. Other:	**0.00**
10. Other:	**0.00**
11. Other:	**0.00**
12. Other:	**0.00**
13. Other:	**0.00**
14. Other:	**0.00**
15. Other:	**0.00**
16. Other:	**0.00**
17. Other:	**0.00**
Total Other Direct Costs	**0.00**

G. Total Direct Costs

	Funds Requested ($)
Total Direct Costs (A+B+C+D+E+F)	**0.00**

PI Name : **Genaro Ozuna**	NASA Proposal Number
Organization Name :	TBD on Submit

Proposal Title : **El presente proyecto propone validar experimentalmente un modelo predictivo de sismos basado en coherencia causal, derivado del formalismo físico TCDS (Teoría de la Cromodinámica Sincrónica). El objetivo central es demostrar locking**

SECTION X - Budget

Start Date :	End Date :	Budget Type : **Project**	Budget Period : **3**

H. Indirect Costs

	Indirect Cost Rate (%)	**Indirect Cost Base ($)**	Funds Requested ($)
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
	0.00	**0.00**	**0.00**
Cognizant Federal Agency:		Total Indirect Costs	**0.00**

I. Direct and Indirect Costs

	Funds Requested ($)
Total Direct and Indirect Costs (G+H)	**0.00**

J. Fee

	Funds Requested ($)
Fee	**0.00**

K. Total Cost

	Funds Requested ($)
Total Cost with Fee (I+J)	**0.00**