

**Systems Integration & Testing Engineering**

The Jet Propulsion Laboratory (JPL) is reviewing options to find **Small Business Concerns and/or Joint Ventures or Teams led by Small Businesses** with experience in one or more of the following listed items. JPL is not seeking staff augmentation firms, but firms with extensive experience in one or more of the following listed items to meet the below scope requirements and minimum/mandatory qualifications.

The JPL Flight Systems Engineering, Integration and Test Section provides systems engineering for the design and implementation of spacecraft for the laboratory’s key flight projects. The work spans spacecraft systems engineering, payload systems integration, electrical systems integration, fault protection and autonomy design, landing systems design, spacecraft assembly and test, systems verification and validation, and systems modeling.

The JPL Flight Systems Engineering, Integration and Test Section is seeking a subcontractor to provide necessary services for Systems Integration and Test Engineering. As part of the requirements of any awarded subcontract, the subcontractor may also provide Systems Test Bed Teamwork, inclusive of responsibility for developing systems level tests, and executing tests that support the system level Validation and Verification (V&V) efforts. The subcontractor shall provide troubleshooting and anomaly resolution as part of the assigned tasks.

JPL encourages both teams addressing the comprehensive requirements as well as business concerns interested in subcomponents to respond. The stated goals are to ensure: (1) JPL has well-qualified subcontractors performing the work; (2) JPL maximizes small business participation in this opportunity; and (3) JPL seeks to find sufficient small business concerns for this targeted Small Business Set-Aside.

JPL is a Federally Funded Research and Development Center (FFRDC) staffed and managed for the National Aeronautics and Space Administration (NASA) by the California Institute of Technology (Caltech).

Minimum Qualifications: Experience and capabilities in all of the tasks listed below.

NAICS Code: **541330** – Engineering Services; **541715** – Research and Development in the Physical, Engineering and Life Sciences (except Nanotechnology and Biotechnology)

SBA Size Standard: $25.5 million; 1,000 employees

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| **Company Information** |
| **Company Name** |  |
| **Address** |  |
| **Point of Contact** |  |
| **Email** |  |
| **CAGE/UEI** |  |
| **Socioeconomic Classifications** |  |

# JPL Deliverables

JPL will:

* Provide all necessary documents needed to complete this effort as Exhibits to the subcontract.
* Provide the project’s schedule and standard team meeting schedules.
* Provide access to the project’s DocuShare, Teamcenter, and Engineering Product Data Management (EPDM) collections, if necessary.
* Provide shared workspace at JPL, if necessary.
* Provide physical and electronic access to JPL as may be required.

# Subcontractor Deliverables

Subcontractor shall:

* Participate in technical and programmatic relevant project meetings and reviews as required.
* Participate in technical and programmatic weekly status meetings with team and management.
* Provide accesses to JPL’s intranet, as may be required.

# Schedule

Expertise and dialogue will occur real-time, in support of analysis tasks above. Specific due dates will be worked within the team and will depend on upcoming SI&T scheduling constraints.

**Programmatic Travel**

None is expected.

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|  | **Certifications** | **Yes** | **No** |
| 1. | Meets NAICS Code 541330 Size Standard (SBA Size Standard: $25.5 million) |  |  |
| 2. | Meets NAICS Code 541715 Size Standard (SBA Size Standard: 1,000 employees) |  |  |

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|  | **Scope Tasks**  | **Yes** | **No** |
| 1. | Available personnel within the next 30 days  |  |  |
| 2. | Point of contact for technical issues associated with assigned procedures, from development through execution and closure |  |  |
| 3. | Communication and collaboration with the Flight Systems and V&V team personnel |  |  |
| 4.  | Troubleshooting and resolution of anomalies that arise. These can be test procedure, errors, and issues with both the design and test equipment |  |  |
| 5. | Have project personnel at JPL, as may be required. Scheduling to be determined by the project. The level of personnel will be determined mutually by the project and the subcontractor |  |  |
| 6.  | Past performance with NASA/JPL/DoD/Large Aerospace  |  |  |

Please provide two to three examples of your relevant experience in the “Past Performance Summary Format” below. Feel free to use Microsoft Word, PowerPoint, or PDF format. For “Scope Tasks that Apply,” please refer to the Scope Requirements Table. List all applicable scope tasks that apply to your past performance separated by comma (i.e., 1, 2, 3, 4, etc.)

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| **Past Performance Summary Format** |
| **Contract Name:**  |
| **Business Size:**  |
| **Socioeconomic Status:** SB [ ]  SDB [ ]  WOSB [ ]  VOSB [ ]  SDVOSB [ ]  HUBZone (SBA Certified) [ ]   HUBZone (not SBA Certified) [ ]  HBCU/MSI [ ]  |
| **Issuing Agency:**  | **Contract #:** |  |
| **Contract $ Value:** | **Period of Perf:** |  |
| **Flight or Non-Flight:**  | **Tier 1 (Prime) / Tier 2 / Tier 3?** |  |
| **Summarized Scope of Work – Provide Technical Details Here** |
|  |
| **Scope Tasks that Apply (1-6)**  |  |

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| **Business Size:**  |
| **Socioeconomic Status:** SB [ ]  SDB [ ]  WOSB [ ]  VOSB [ ]  SDVOSB [ ]  HUBZone (SBA Certified) [ ]   HUBZone (not SBA Certified) [ ]  HBCU/MSI [ ]  |
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| **Contract $ Value:** | **Period of Perf:** |  |
| **Flight or Non-Flight:**  | **Tier 1 (Prime) / Tier 2 / Tier 3?** |  |
| **Summarized Scope of Work – Provide Technical Details Here** |
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| **Scope Tasks that Apply (1-6)**  |  |

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| **Summarized Scope of Work – Provide Technical Details Here** |
|  |
| **Scope Tasks that Apply (1-6)**  |  |

Please include **“Systems Integration and Testing Engineering Capabilities”** in the subject line of your email to smallbusiness.programsoffice@jpl.nasa.gov. The Small Business Programs Office may contact you to ask questions or request further information.

DISCLAIMER: There is no commitment or guarantee on the part of JPL to move forward with a Request for Information (RFI) or Request for Proposal (RFP).