

**Multi-Divisional Engineering, Design, Analysis, Lab-wide Support (MEDALS) Program**

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 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: **541715 – Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)**

SBA Size Standard: 1,000 Employees

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

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|  | **Certifications** | **Yes** | **No** |
| 1. | Meets NAICS Code 541715 Size Standard |  |  |

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|  | **Scope Tasks**  | **Yes** | **No** |
| 1. | Providing System Engineering Support: System requirements development; Interface development, tracking and documentation; System documentation development; Verification & Validation (V&V) Support including test support, test data analysis and test documentation; Mechanical and Electrical System Integration and Test support; Electrical systems engineering analysis support. |  |  |
| 2. | Providing Electronics Design and Performance Analysis: Circuit design, Field Programmable Gate Array (FPGA) logic/circuit configuration and design, including associated firmware and hybrid electronics assembly; performance analysis (includes reliability analysis), electrical stress analysis, failure modes and effects analysis, and worst-case analysis. |  |  |
| 3. | Providing Electronic Packaging Engineering: RF, high voltage and hybrid microelectronics packaging; printed wiring board design and printed circuit board fabrication; electronic chassis design; electronics assembly; electronic assembly design; thermal and structural analysis of electronic packages. |  |  |
| 4. | Providing Mechanical Hardware Design and Engineering: Structure, deployment mechanisms and mechanical devices development; mechanical hardware test development and planning, test execution and/or support. |  |  |
| 5. | Providing Structural Analysis: Finite element modeling, stress, loads, and dynamics analysis; structural test development and planning, structural test execution and/or support. |  |  |
| 6. | Providing Thermal, Fluids and Cryogenic Systems Engineering: Thermal hardware design and development; S/C Systems thermal analysis; Aerodynamic, aero-thermodynamics and computational fluid dynamics analysis. |  |  |
| 7. | Providing Propulsion Systems Engineering: Propulsion system design; component sizing and procurement support; integration and test support. |  |  |
| 8. | Providing Cable/Harness Engineering: Harness design, fabrication and test support. |  |  |
| 9. | Providing Materials and Materials Processes Engineering: Material review, analysis, test and technical documentation support. |  |  |
| 10. | Providing Contamination Control Engineering: Contamination control management and contamination control analysis support. |  |  |
| 11. | Providing Optical Systems Design and Analysis: Optical design, analysis, ray trace, and prescription development. |  |  |
| 12. | Providing Opto-Mechanical Design and Development: Optical bench structure, optical component, filter wheel and focus mechanism design, fabrication, assembly and test.  |  |  |
| 13. | Providing RF/Microwave Engineering: Design, assembly, test, and performance analysis. |  |  |
| 14. | Providing Guidance Systems Engineering: Guidance system design, analysis and simulation; component sizing and procurement specification support; integration and test support. |  |  |
| 15. | Providing Control Systems Engineering: Control system design, analysis and simulation; component sizing and procurement support; integration and test support. |  |  |
| 16. | Providing Fabrication and Assemble: Build capability for flight and non-flight hardware; composite structures for spacecraft and instrument assemblies.  |  |  |
| 17. | Government approved accounting system  |  |  |
| 18.  | Cognizant governmental agency reviewing indirect billing rates  |  |  |
| 19. | Past performance with NASA/JPL/DoD/Large Aerospace company. |  |  |

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:** |  |
| **Tier 1 (Prime) / Tier 2 / Tier 3?** |
| **Summarized Scope of Work – Provide Technical Details Here** |
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| **Scope Tasks that Apply (1-19)**  |  |

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| **Summarized Scope of Work – Provide Technical Details Here** |
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| **Scope Tasks that Apply (1-19)**  |  |

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| **Summarized Scope of Work – Provide Technical Details Here** |
|  |
| **Scope Tasks that Apply (1-19)**  |  |

Please include **“MEDALS 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).