

Request for Proposal (RFP)

Launch Services for Medium-Lift Payloads to Low Earth Orbit (LEO)

Issued by: Acme Space Research Consortium

RFP ID: ASRC-2025-LEO-001

Date Issued: July 17, 2025

1. Introduction

Acme Space Research Consortium (ASRC) invites proposals from qualified space launch service providers capable of delivering medium-class payloads to Low Earth Orbit (LEO). This RFP seeks detailed technical, operational, and interface information to support upcoming mission planning.

2. Scope of Services

Respondents must demonstrate launch vehicle capabilities suitable for delivering payloads between **10,000 kg and 22,800 kg to LEO**. This includes documentation of vehicle configurations, launch environments, payload accommodations, and operational cadence.

3. Proposal Questions

3.1 Launch Vehicle Overview

Q1: Provide an overview of the family of launch vehicles you offer, including key design philosophies and reliability considerations.

Q2: Summarize the launch cadence capabilities and mission types your vehicle can support.

3.2 Performance Specifications

Q3: What is the maximum payload capacity of your vehicle to:

- Low Earth Orbit (LEO)
- Geosynchronous Transfer Orbit (GTO)
- Trans-Lunar Injection (TLI)

Include representative performance data.

Q4: Describe the vehicle configurations offered, particularly any expendable versus reusable variants, and how they impact payload capacity.

3.3 Payload Fairing and Integration

Q5: Provide detailed specifications of the payload fairing(s), including:

- Inner diameter
- Height and usable volume
- Maximum payload envelope

Q6: Describe the payload integration process, including encapsulation procedures and any customer requirements.

Q7: Outline the fairing separation mechanism and the reliability measures employed to ensure successful separation.

3.4 Launch Site and Operational Readiness

Q8: List all available launch sites for your vehicle and their respective orbital inclinations.

Q9: Describe your approach to launch readiness timelines, including typical turnaround times between launches.

3.5 Environmental Conditions and Testing

Q10: What are the environmental loads (acoustic, vibration, shock) to which the payload will be exposed during launch?

Q11: Summarize the standard environmental testing requirements or recommendations for payload compatibility.

4. Submission Requirements

Respondents are requested to submit:

- A detailed written response addressing all questions
- Relevant sections or excerpts from technical user guides or datasheets (as appendices)
- A signed cover letter confirming willingness to support mission planning discussions

5. Evaluation Criteria

Proposals will be evaluated on:

- Completeness and clarity of technical responses
- Demonstrated vehicle capabilities aligned with mission needs

- Proven operational track record and reliability

6. Response Deadline

All proposals must be submitted by **August 15, 2025**.

7. Contact Information

For inquiries, contact:

Procurement Officer, ASRC

Email: procurement@asrc.org

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