Project Introduction

NASA’s program for Solar System Exploration will augment the current remote sensing approach to solar system exploration with a robust program that includes in situ measurements at key places. This requires robotic explorers capable of operation and survivability in high-temperature/high-pressure environment to service the needs of the future in situ exploration of Venus as well as atmospheric probes for giant planets. This program will design a Venus probe thermal management system capable of sustaining operation for 20 hours or more. To support the design, new thermal management technologies will be evaluated and considered for use the harsh Venustian environment.

Primary U.S. Work Locations and Key Partners

<table>
<thead>
<tr>
<th>Organizations Performing Work</th>
<th>Role</th>
<th>Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 Jet Propulsion Laboratory (JPL)</td>
<td>Lead Organization</td>
<td>NASA Center</td>
<td>Pasadena, CA</td>
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<tr>
<td>Ceramic Composites, Inc.</td>
<td>Supporting Organization</td>
<td>Industry</td>
<td>Annapolis, MD</td>
</tr>
</tbody>
</table>

Primary U.S. Work Locations

| California | Maryland |
Project Management

Program Director:
Jennifer L. Gustetic

Program Manager:
Carlos Torrez

Technology Areas

Primary:
- TX08 Sensors and Instruments
  - TX08.3 In-Situ Instruments/Sensor
    - TX08.3.6 Extreme Environments Related to Critical System Health Management