

## Propulsion Support Statement of Work

In support of Green Propulsion Infusion Mission (GPIM)

Task support requested by:



### Summary

The period of performance will be through September 30, 2019.

This activity is required to support the Green Propulsion Infusion Mission (GPIM) propulsion testing. This testing is general in support of material properties of the propellant includes, but will also support system testing, component testing, and future mission support. Support includes fabrication and assembly of test hardware. This work will be performed off site.

### Requirements

Provide support for testing of propulsion hardware. Support includes fabrication and assembly of test and GSE, hardware for the propulsion subsystem, including electrical, fluid, gas, thermal, and mechanical interfaces; conducting tests procedures under the guidance of a propulsion engineer; and assisting with documentation.

Support interface meetings to determine or resolve issues related to testing.

The contractor shall develop, provide, test and ~~maintain-operate~~ a material compatibility test apparatus per NASA-STD-6001. The operation shall be at NASA GSFC.

### Required Skills & Training

- Clean room familiarity, including particle counts and precision cleaning methods
- Familiarity with propulsion hardware, GSE, and test methods, including pressure panels, hazardous tests involving pressurized gas, etc.
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- Familiarity with Matlab for data analysis
- Familiarity with mission operations, specifically propulsion operations

### Deliverables

- Brief written progress reports to be supplied to the ATR each month.

Additional milestones will be developed as required by GPIM testing.