

Statement of Work
MIST Task 262
Optical Systems Engineering Support for Code 450 Division Engineering

Date	Change(s) in this SOW	Comment
11/8/2018	SOW Initiation	POP is Dec 2, 2018 through Nov 30, 2019.

1.0 Scope:

1.1 Task Background/Overview: Optical Systems Engineering Support:

This task provides experienced Optical Systems Engineering support to Code 450 projects. Included in this effort is senior systems and optical engineering support for missions, instrument flight projects and mission operations, with experience in laser communications. The task is for support covering numerous system engineering efforts.

1.2 Skill-Set/Knowledge required from the contractor:

The contractor shall provide senior optical systems engineering expertise with at least 20 years of hands on experience with in-house GSFC missions. Hands on experience with generating requirements for complex science missions, extensive experience with in-house architectures and designs, including redundant architectures, senior level experience with failure modes and risk analyses are required. Experience with laser communications systems, architectures and designs are required.

2.0 Statement of Work:

- Support needed through POP for ESC Division/450 studies across SCaN and HEOMD umbrella.
- Provide senior optical systems engineering as necessary for trade studies, technical consultation and guidance.

3.0 Deliverables and Milestones:

At this time, the deliverables and milestones are to provide senior experienced support to the projects, as needed and as described in the subtasks. No specific reports or due dates have been identified at the task level. Sample deliverables would include inputs for SCaN technical baseline documents, or systems engineering study reports and briefings. Personnel participate in weekly staff meetings to provide feedback on status.

4.0 ODC/Materials:

The ODC/Materials anticipated on this task will include those expenses necessary to conduct the systems engineering and requirements related work, including moving expenses. Government-furnished equipment includes provision of office space on center and computer and associated IT services. Non-standard software needed to perform job is responsibility of the government to furnish.

5.0 Travel

Travel as indicated by project needs, with at least 1 trip for 1 person to Glenn Research Center (GRC) for 2 days and 1 trip to Jet Propulsion Lab (JPL) for 3 days.

6.0 Applicable Documents:

Due to the work under this task being focused on engineering support, there are no applicable documents to identify.

7.0

Period of Performance:

The Period of Performance for this task is December 1, 2018 through November 30, 2019.