Office of Safety and Mission Assurance (OSMA)

SMA Manager for Deep Space Exploration

The HQ Office of Safety and Mission Assurance (OSMA) promotes, coordinates, and oversees the integrity, capability, and implementation of an effective Safety and Mission Assurance (SMA) program, to ensure the safety, quality, reliability, risk management, and mission success of Mission Directorate programs and projects. The detailee will report to the Director, Mission Support Division. The detailee's primary role will be to support the HQ SMA Manager for Deep Space Exploration in support of Exploration Systems Development (ESD) and/or Lunar Exploration, as well as related functions and activities. In addition, the detailee may be assigned other duties in support of OSMA priorities and needs, and to enhance the detailee's knowledge and experience as it relates to NASA HQ. The detailee will have high visibility in Agency level meetings and be part of key decisions, and act on behalf of the HQ SMA Manager as necessary.

Detail assignment:

The detail assignment will involve working various areas of safety and mission assurance in support of ESD and Lunar Exploration programs and projects. Some of the activities include the following:

- Support the needs of the OSMA Chief, OSMA Deputy Chief, HEOMD AA, ESD and Lunar Exploration DAA, and ESD SMA Director in day to day business activities.


- Support the quarterly Agency Baseline Performance Reviews of ESD and lunar Exploration programs and projects, and OSMA mission support functions.

- Participate in Directorate Program Management Councils, quarterly and/or monthly ESD and Lunar Exploration Program/Project reviews, and weekly OSMA, MSD and ESD staff meetings.

- Participate in ESD and Lunar Exploration Program/Project/Module Control Boards when SMA-related topics are discussed.

- Participate in weekly ESD Chief Safety and Mission Assurance Officer Tag-Ups, ESD SMA meetings, and Gateway SMA meetings.

• Participate in ESD and Lunar Exploration Safety and Mission Success Reviews, and support the development of meeting content and special topics.

• Perform special risk assessments as required.

• Respond to external stakeholder actions from Congress, the Aerospace Safety Advisory Panel, the NASA Advisory Council, and the Inspector General.

• Oversee audit and review activities by the NASA Inspector General and the NASA Safety Center.

**Grade levels:** GS-14 or GS-15  
**Location:** NASA Headquarters  
**Duration:** 12 months  
**Who will be considered:** Civil Servants only from NASA Headquarters or Goddard Space Flight Center, due to limited travel funds. Civil Servants from other NASA Centers able to pay extended TDY will also be considered.

Skills required:

It is important that the candidate's resume demonstrate the following general skills and abilities:

• Strong written and interpersonal communication skills  
• Strong technical skills, preferably in engineering at the systems and/or discipline level  
• Ability to manage multiple assignments with varying due dates  
• Ability to understand issues at the Agency level and the consequences of various courses of action  
• Results oriented work ethic  
• Independent, self-starter
Office of Safety and Mission Assurance (OSMA)

SMA Manager for the Science Mission Directorate

The HQ Office of Safety and Mission Assurance (OSMA) promotes, coordinates, and oversees the integrity, capability, and implementation of an effective Safety and Mission Assurance (SMA) program, to ensure the safety, quality, reliability, risk management, and mission success of Mission Directorate programs and projects. The detailee officially reports to the Director, Mission Support Division, but receives daily direction from the Senior SMA Manager. The detailee's primary role will be to support a variety of Science Mission Directorate (SMD) related functions and activities. The detailee will also be assigned other duties in support of OSMA priorities and needs, and to enhance the detailee's knowledge and experience as it relates to NASA HQ. The detailee will have high visibility in Agency level meetings and be part of key decisions, and act on behalf of the Senior SMA manager as necessary.

Detail assignment:

The detail assignment will involve working various areas of safety and mission assurance in support of Science Mission Directorate programs, projects, technology developments, and research activities. Some of the activities include the following:

- Support the needs of the OSMA Chief, OSMA Deputy Chief, SMD AA, SMD DAA, SMD AA for Programs, SMD Division Directors, and SMD Program Executives in day to day business activities.

- Work collaboratively with team members from OCE, OCFO, and SMD to formulate joint independent assessments of mission technical, cost, schedule, and programmatic risks.

- Support the monthly Agency Baseline Performance Review of SMD programs and projects, and OSMA mission support functions.

- Participate in Directorate Program Management Councils, monthly Flight Program Reviews, Center level program and project reviews, and weekly OSMA and SMD staff meetings.

- Review, edit, and concur on program plans, project plans, NPR and NPD revisions, Orbital Debris Assessment Reports, End of Mission Plans, Mishap Planning and Contingency Plans, and Planetary Protection Requirements.

- Participate in science mission Safety and Mission Success Reviews, and support the development of meeting content and special topics.

- Perform special risk assessments as required.
• Respond to external stakeholder actions from Congress, the Aerospace Safety Advisory Panel, the NASA Advisory Council, and the Inspector General.

• Oversee and coordinate audit and review activities by the NASA Inspector General and the NASA Safety Center.

**Grade levels:** GS-14 or GS-15  
**Location:** NASA Headquarters  
**Duration:** 12 months  
**Who will be considered:** Civil Servants only from NASA Headquarters or Goddard Space Flight Center, due to limited travel funds. Civil Servants from other NASA Centers able to pay extended TDY will also be considered.

Skills required:

It is important that the candidate's resume demonstrate the following general skills and abilities:

• Strong written and interpersonal communication skills
• Strong technical skills, preferably in engineering at the systems and/or discipline level
• Ability to manage multiple assignments simultaneously with varying due dates
• Ability to learn quickly, think broadly, and understand issues at the Agency level as well as the consequences of various courses of action
• Results oriented work ethic
• Independent, self-starter
Office of Safety and Mission Assurance (OSMA)

R&M Technology Transformation and Innovation Coordinator

The HQ Office of Safety and Mission Assurance (OSMA) promotes, coordinates, and oversees the integrity, capability, and implementation of an effective Safety and Mission Assurance (SMA) program to ensure the safety, quality, reliability, risk management, and mission success of Mission Directorate programs and projects. The detailee will report to the Reliability and Maintainability (R&M) Technical Fellow in the Safety and Assurance Requirements Division. The detailee's primary role will be to support the R&M Technical Fellow in planning and coordination of a number of innovation and/or transformation activities taking place across the Agency to help bring enterprise solutions to common, cross-cutting, challenges.

Detail assignment:

The detail assignment will involve interacting with SMA, technology, information systems, and other personnel across the Agency in the support and execution in one or more innovation and/or technological transformation activities.

The detailee will serve as a representative of OSMA in support of and in coordination with the R&M Technical Fellow.

The detailee will be responsible for attending working group meetings, participating in the planning and execution of related activities, soliciting feedback from OSMA and SMA colleagues, and providing routine status reports and briefings. Specific innovation and digital transformation activities may include one or more of the following:

- Strategic Data/Data Management team (i.e., looking at organization and methods to share valued data across multiple discipline, functional areas, and/or organizational areas).

- R&M Enterprise Data Sharing Initiative (i.e., sharing pertinent anomaly data and associated contextual knowledge across Centers/Projects in support of reliability and safety modeling and associated risk assessment activities).

- Standards and/or Guidebook development (e.g., Post Mission Disposal planning, IEEE 1413.1 Guide for Selecting and Using Reliability Predictions Based on IEEE 1413, and IEEE 1624 Standard for Organizational Reliability Capability).

- Physics of Failure (PoF) reliability modeling working group.

- Integrated Safety and Mission Assurance (SMA) and Systems Engineering (SE) Framework working group meetings.

As part of these activities, the detailee will also recommend products (i.e., systems, reports,
results) that are key or add value during various phases of mission planning and life cycle development.

**Grade levels:** GS-14 or GS-15  
**Location:** Detail in place (Any NASA Center)  
**Duration:** 6-12 months, 25% to 50% of time  
**Who will be considered:** Civil Servants only from NASA Headquarters or Goddard Space Flight Center, due to limited travel funds. Civil Servants from other NASA Centers able to pay extended TDY will also be considered.

Skills required:

It is important that the candidate's resume demonstrate the following general skills and abilities:

- Strong written and interpersonal communication skills. Is capable of understanding and communicating technical and specialized concepts in plain language across communities with different types of expertise.
- Experience working with safety and mission assurance policy or requirements or strong interest in learning how to do so.
- Strong technical skills, preferably in technology, information systems, or engineer at the systems and/or discipline level
- Ability to manage implementation plan and execution adjusting as necessary to overcome unforeseen obstacles or incorrect assumptions.
- Ability to learn Program, Project and Agency level context for Reliability and Maintainability implementation.
- Organized and adheres to delivery dates or negotiates date changes in advance. Independent, self-starter, strong collaborator without significant