



State of New Mexico
Classification Description

SPACEPORT AEROSPACE ENGINEER

General Summary

Performs flight safety assessments of space vehicles and launch platforms; monitors commercial space launches and reentries and operation of launch and reentry sites. Coordinates Spaceport space activities with the Office of Commercial Space Transportation of the Federal Aviation Administration (FAA/AST) and with the US Army White Sands Missile Range (WSMR). Complies with International Trading in Arms Regulations (ITAR).

Coordinates and monitors space launch and related operations. Recommends improvements in range equipment and procedures. Performs analysis in areas such as flight safety risk assessment, trajectories of space vehicles and meteorological data interpretation. Participates in developing and maintaining Range Operations Plans, Flight Safety Plans, FAA Launch Site Operator License credentials, Environmental Impact Statement compliance reports, mission reports and other pertinent documents.

Spaceport Aerospace Engineer

Jobcode: E40495

Pay Band: 75 (Alternative Pay Band 90)

FLSA Status: FLSA status may be determined to be different at the agency level based on the agency's utilization of the position.

Distinguishing Characteristics

This is the full performance level of the classification requiring performance of a full range of duties relative to the work in the class series. Incumbent has some latitude for independent judgment and may vary work methods and procedures, but usually within prescribed parameters. Work is usually performed under general supervision. Work is frequently of some variety and incumbent may set priorities.

Recommended Education and Experience for Full Performance

Bachelor's Degree in Aerospace or Aeronautical Engineering, Mechanical Engineering, Civil Engineering, Systems Engineering, or a physical science (with an emphasis on applied analysis) and seven (7) years of experience in space systems, applying aeronautical principles, performing statistics-based risk assessments, analyzing space vehicle trajectories, working with guidance, navigation and control systems, developing and interpreting maps.

Minimum Qualifications

Bachelor's Degree in Aerospace or Aeronautical Engineering, Mechanical Engineering, Civil Engineering, systems engineering, or physical science (with an emphasis on applied analysis) and five (5) years of experience in space launch operations planning and execution systems, applying aeronautical and engineering principles to launch operations analysis, performing statistics-based risk assessments, analyzing space vehicle trajectories, working with guidance, navigation and control systems, developing and interpreting maps.

Essential Duties and Responsibilities*

- Plans, coordinates and conducts mission readiness reviews prior to launches.
- Participates in environmental and operational tests associated with aircraft, aerospace systems, and related equipment.
- Analyzes project requests, proposals, and engineering data to determine feasibility of Spaceport America's ability to support.
- Evaluates product data and design from inspections and reports for conformance to engineering principles, customer requirements, and quality standards.
- Maintains mission records and reports for future reference.

SPACEPORT AEROSPACE ENGINEER

- Develops technical reports, handbooks, and user guides for use by engineering staff, management, or customers.
 - Reviews performance reports and documentation from customers and field engineers and inspects malfunctioning or damaged products to determine problem.
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Bargaining Unit: It is the hiring Agencies responsibility to identify each position covered by a Collective Bargaining Agreement.

Statutory Requirements: Statutory requirements for individual positions in this classification will vary based on each agency's utilization, essential functions and the recruitment needs at the time a vacancy is posted including. It is the hiring Agencies responsibility to ensure the appropriate licenses/certifications are obtained for each position.

Conditions of Employment: Conditions of employment for individual positions in this classification will vary based on each agency's utilization, essential functions and the recruitment needs at the time a vacancy is posted including.

Working Conditions: Working Conditions for individual positions in this classification will vary based on each agency's utilization, essential functions and the recruitment needs at the time a vacancy is posted. All requirements are subject to possible modification to reasonably accommodate individuals with disabilities.

Established: 03/26/2014

Revised: 9/16/2014; 01/10/2021

**Essential Duties and Responsibilities are intended to be cumulative for each progressively higher level of work. The omission of specific statements does not preclude management from assigning other duties which are reasonably within the scope of duties. Classification description subject to change. Please refer to SPO website (www.spo.state.nm.us) to ensure this represents the most current copy of the position.*