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Entry Level Flight Controller at NASA (Engineer I)

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Entry Level Flight Controller

This position provides flight control and training support to the International Space Station (ISS) and manned Exploration Programs within the NASA JSC Flight Operations Directorate (FOD) through one of several possible assignments in the areas of spacecraft control; trajectory planning, design and analysis; onboard systems operations; mission timeline development; robotic operations; extra vehicular activity planning and execution; in-flight maintenance; or crew systems support. Duties will require successfully completing a training and skill certification process. Typically the candidate will first train and become certified for a Mission Control Center console position. The individual may subsequently attain additional certifications required to train astronauts, cosmonauts, flight controllers, and other NASA and International Partner mission operations personnel on ISS/Exploration systems content. Specific duties associated with flight control positions include maintaining a safe environment for astronauts onboard ISS/Exploration vehicle to work and live; monitoring of real-time status and performance of vehicle systems; controlling system operations from mission control; reporting status and anomalies to mission managers; determining mission impacts and implementing corrective actions; test and verification of operational products and analysis; integrating

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requirements with other systems and organizations; and the development and maintenance of operations products such as flight rules, console procedures, and technical references. Certain positions require the candidate to support or lead technical analyses relating to spacecraft systems or trajectory operations. Individuals in this position may interface directly with the NASA customer, subcontractors, program personnel, International Partners, and commercial vendors. Entry level certified flight controllers may work evenings and weekend shifts during noncomplex operations. Flight controllers may then achieve additional certifications after a period of time to support more complex operations, which frequently occur during day shifts. As a certified Instructor the individual will support shifts as needed, develop training materials, participate in the conduct of simulations, and instruct crew and mission operations utilizing a variety of media and facilities. This is an entry-level position. Preferred position related experience 0-2 years. This position requires successful completion of a government background check before commencement of employment.

Bachelor's of Science Degree or anticipate graduation within the next 6 months in Science, Mathematics or Engineering (ABET). Knowledge of engineering principles and the ability to apply them to real-time operations is essential. Previous experience with or course work in basic engineering, orbital mechanics, and spacecraft flight dynamics is desired. Excellent communication (verbal and written), interpersonal, leadership, teamwork, technical, and administrative skills are mandatory. Candidate must have a demonstrated ability to plan, lead, and coordinate a wide range of tasks. Candidate must demonstrate the ability to progress through flight controller and instructor certifications.

Candidate must be able to apply technical knowledge and operations concepts to exercise effective decision making and initiative in a real-time and fast-paced operational environment. Candidate should be a self-starter who excels in a dynamic environment that requires him/her to work effectively both alone or as part of a team. Candidate is required to pass a standard flight controller physical examination and pass security

clearances. Shift work (nights, weekends, and holidays) is required. Candidate must be able to support infrequent travel domestically or internationally. Russian, Japanese, or European language skills are a plus. Understanding of personal computers and LAN architecture including routers, and wireless communication devices desired for specific flight control assignments.

Successful candidates must be able to apply for and successfully receive and maintain security clearance per eligibility requirements.

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