Job Description:

Leidos is a Fortune 500™ company aimed at embracing and solving some of the world’s most pressing challenges. Through science and technology, Leidos makes the world safer, healthier and more efficient.

Our Civil Group offers an array of exciting career opportunities for the best IT, energy, logistics and engineering professionals.

Our Transportation Solutions Operation delivers cutting-edge research in some of the most exciting technological fields and advances state-of-the-practice solutions in transportation safety. A new era of mobility requires specialized expertise to address paradigm shifts in how we travel and move goods.

We support our customers with:

- Connected and Automated Vehicles
- Aircraft Traffic Planning and Operations
- Human Factors Research
- Analysis, Modeling and Simulation
- Transportation Safety and Operations, and Asset Management
- e-Construction and Accelerated Construction
- Freight Efficiency
- Research Facility Management

Leidos is seeking a Software Engineer who will be a member of a dynamic team working on the development of software that improves aircraft runway and terminal congestion. Nationwide congestion is increasing, and the need for efficient aircraft traffic planning is critical. The Federal Aviation Administration (FAA) Terminal Flight Data Manager (TFDM) is the surface management solution that will provide NextGen Air Traffic Control capabilities to improve air traffic operations in the National Airspace System (NAS). The Terminal Flight Data Management (TFDM) program is a Federal Aviation Administration’s (FAA) NextGen program based on airport surface management provides that efficiencies for both the airport surface and terminal airspace by providing a new and comprehensive integrated surface traffic control and management system.

TFDM functions include:

- Surface Collaborative Decision making (SCDM), departure scheduler and other airport decision tools
- Electronic Flight Data (EFD)
- Enhanced Air Traffic Control Tower (ATCT) Traffic Flow Management System (TFMS)
- Replacement or integration of multiple systems in the National Airspace System (NAS).
- TFDM will share data among: controllers, aircraft operators, and airports so they can better stage arrivals and departures and manage traffic flow within terminal airspace for greater efficiency.
- Stakeholders will have a shared awareness of flights on the ground and in the air, the ability to exchange data electronically, with the goal of a continuous real-time picture of traffic volume and airport resources, making flights more efficient from gate to gate.

Responsibilities:

Working both as a member of a team and independently the successful candidate will be:

- Modernizing the air traffic control tower equipment by improving the exchange of electronic flight data and implementing electronic flight strips.
- Streamlining the schedule sequence of departures to improve efficiency on the surface.
Optimizing the experience for the flying public, Air Traffic Control, and the airline industry by improving the collaboration and decision-making capabilities between the gate and the tower.

- Developing and maintaining the FAA air traffic control display software within the object oriented environment (primarily C++/Java) on a UNIX/Linux platform.
- Performing software development as needed for the TFDM system
- Providing support needed for system engineering
- Articulating user needs and requirements from high level user stories
- Developing the design for the user interface framework including client and server side components; analyzing and designing databases within an application
- Working in an Agile Scrum environment
- Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information.

**Qualifications:**

- Experience in object oriented design and development with the C++ programming
- Experience in following a documented Software Development Process
- Experience using version control tools such as Git, Subversion or CVS
- Experience in use of the UNIX and Linux operating systems
- Experience developing graphical user interfaces using Qt
- Development experience in other computer languages (Java, C, Ada, Perl, etc.)
- Familiarization with the Atlassian Tool Suite and JIRA
- FAA air traffic domain knowledge
- Bachelor’s degree from an accredited college in related engineering discipline, or equivalent experience and less than 2 years prior relevant experience.
- Your GPA needs to be included on your application and resume.
- US Citizenship Requirements
- Candidate must be able to obtain an SF-85P Public Trust clearance from the FAA customer.

Leidos is growing! Connect with us on LinkedIn and Facebook.

We value and support the well-being and mobility of our employees with competitive benefit packages, complementary e-learning training, work-life flexibility, an exciting External Referral Program, and a diverse, inclusive and ethical workplace. In fact, in 2020, Leidos was ranked as one of the “World's Most Ethical Companies” by the Ethisphere Institute for the third consecutive year.