Opportunity Title: Aviation Data Analyst and Visualization Fellow
Opportunity Reference Code: USDOT-2024-ADAVF

Organization	U.S. Department of Transportation (DOT)
Reference Code	USDOT-2024-ADAVF
How to Apply	Click on *Apply* below to start your application.

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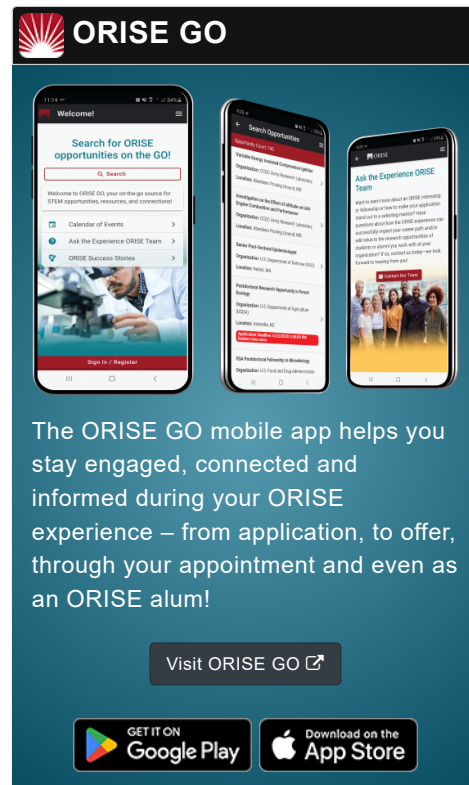
Description

Are you ready to bring transformative change to aviation information production, analysis and distribution techniques? Here is a chance to influence and improve the effectiveness of aviation data at the national level by simplifying complex problems with data and visuals that convey information in new, understandable ways. Take an appointment with our team as we lead the creation of new national aviation data information products in the era of big data, and where you build new stories about transportation and implement innovative analysis.

You will be using, adapting and transforming data and data analysis to provide new stories about aviation and air transportation. You will learning of how to craft aviation data into meaningful information for the public. You will design and build innovative, new products that capture critical areas of aviation.

As an Aviation Data Analyst and Visualization Fellow you will:

-Contribute to a variety of research, analytical, and statistical projects
-Learn to draw conclusions from a wide range of aviation system data and articulating key findings in both written and verbal form.
-Learn to conduct quantitative data analysis, including data retrieval, processing, analysis, and visualization of various datasets
-Present results in an intuitive manner that can be understood by all audiences, regardless of technical expertise
-Discover how to Contextualize a wide array aviation system data to provide defensible and meaningful interpretations of results in both written and verbal form
-Learn to analyze the needs of users
-Engage with designing, developing and deployment of solutions using the software development cycle
-Engage with testing software solutions
-Develop skills to document software programs with flowcharts, layouts, charts, diagrams and other documentation
-Learn about developments in the field to stay on top of the latest advancements

You will have the opportunity to develop close collaborative relationships with other U.S. Department of Transportation

offices, and other Federal agencies that maintain data and analytical capabilities, which can aid in the understanding of the aviation industry. You will participate in inter-agency efforts relating to the development and improvement of information production and distribution, and you will conduct research on existing and emerging technologies, processes and approaches that can be used to enhance the storytelling of aviation and then implement this research with new products and techniques.

Who are we? We are the U.S. Department of Transportation's Bureau of Transportation Statistics (BTS) Office of Airline Information (OAI). The BTS is the Principal Federal Statistical Agency that provides objective, comprehensive, and relevant information on the extent and use of the Nation's transportation system, how well the system performs, and the effects of the system on society and the environment. BTS is recognized as the pre-eminent source of commercial airline data for the United States.

Qualifications

Minimum of a bachelor's degree in related field required (preferably in Data Science, Data Visualization, Geography, Social or Behavioral Science, Computer Science, Information Systems, Math or Statistics, Earth or Geo Science, Business).

• Self-motivated, hard-working independent thinker that requires minimal supervision.
• Strong skills with programming/scripting languages (R, Python, etc.), and familiarity with associated statistical analysis packages
• Experience with database technologies (e.g., Sybase, Oracle, MySQL, SQL Server)
• Experience with data visualization software (e.g., Tableau)
• Strong written and verbal communication skills
•Ability to engage both independently and with a team

• Understanding of Cloud Technologies (Azure and AWS)

A complete application consist of:

- Profile Information
- Application Questions (*goals, experiences, and skills relevant to the opportunity*)
- Transcript(s) - An unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. Selected candidate may be required to provide proof of completion of the degree before the appointment can start.
- A current resume/CV
- Two Letters of recommendation - Applicants are required to provide contact information for two recommendations in order to submit the application. Applicants are encouraged to request a letter of recommendation before submission as

this may help reviewers have a better understanding of the applicant's qualifications and interests. The letter of recommendation must be submitted on your behalf before selections are completed and offers are made.

If you have questions, please email USDOT@orau.org. Please list the reference code for this opportunity in the subject line of your email.

Eligibility Requirements	• **Citizenship:** LPR or U.S. Citizen
	• **Degree:** Bachelor's Degree received within the last 60 month(s).
	• **Academic Level(s):** Faculty, Graduate Students, or Post-Bachelor's.
	• **Discipline(s):**
	  ○ **Business** (11 👁)
	  ○ **Computer, Information, and Data Sciences** (17 👁)
	  ○ **Earth and Geosciences** (21 👁)
	  ○ **Engineering** (27 👁)
	  ○ **Life Health and Medical Sciences** (51 👁)
	  ○ **Mathematics and Statistics** (11 👁)
	  ○ **Physics** (16 👁)
	  ○ **Science & Engineering-related** (1 👁)
	  ○ **Social and Behavioral Sciences** (30 👁)