

**Opportunity Title:** Data Analytics Fellow

**Opportunity Reference Code:** USDOT-2021-2002

**Organization** U.S. Department of Transportation (DOT)

**Reference Code** USDOT-2021-2002

**How to Apply** Click on *Apply* below to start your application.

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**Description Who we are:**

The Bureau of Transportation Statistics (BTS) of the United States Department of Transportation (USDOT) is the preeminent source of statistics on aviation, surface transportation, freight flow, and transportation economics, and provides context to decision makers and the public for understanding transportation statistics. BTS assures the credibility of its products and services, promoting innovative methods of data collection, analysis, visualization, and dissemination. See more details at <https://www.bts.gov/>.

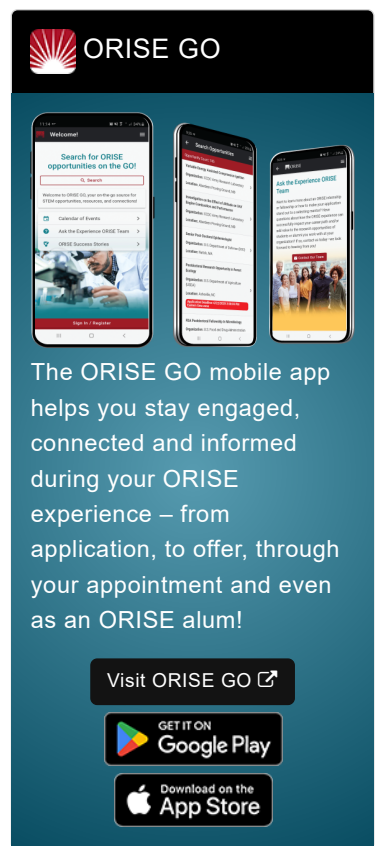
**Who we want to invite:**

We are looking for a fellow trained in data analytics disciplines. This is a great opportunity to strengthen your programming and analysis skills with national data and to gain invaluable experience collaborating with subject-matter experts. The ideal candidate will be experienced in data processing, programming, statistical analysis, and geospatial applications, and knowledgeable of data mining and predictive modeling. The fellowship offers an excellent opportunity to provide input, direction, and creativity into projects involving national databases as well as skill development and training, and networking opportunities. If this sounds exciting to you, come apply your data analytics and research skills to help shape the best U.S. transportation system!

**How you will contribute:**

You will be located in the Office of Data Development and Standards (ODDS). The ODDS designs, develops and conducts data development programs to capture information on U.S. transportation system for effective use in decision making. ODDS staff work collaboratively across agencies, within and outside USDOT, to explore innovative methods of data collection/analysis/visualization and survey design in improving and initiating data development programs.

You will engage in developing and implementing transportation data development programs through several projects. You will apply data analytics techniques to collect, augment, and analyze transportation data. You will be involved with researching administrative and auxiliary data sources to enhance the transportation data. You will also engage in disseminating data and analysis findings by developing visualization applications, presenting at conferences, and publishing journal papers. Strong communication, coordination, and team work skills are essential to



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be successful in this role.

**COVID-19 Precaution:**

This will be a remote fellowship until it is safe to come to USDOT Headquarters at Washington, D.C. When the health and safety is ensured, you are expected to be in the office at Headquarters.

**Stipend and Benefits:**

Stipend: \$78,000 / Professional Development: \$2,000 / Health Insurance: \$3,000

U.S. Department of Transportation (DOT) ensures our Nation has the safest, most efficient and modern transportation system in the world, which improves the quality of life for all American people and communities, from rural to urban, and increases the productivity and competitiveness of American workers and businesses.

**Qualifications** The appointed Data Analytics Fellow must be currently enrolled in, or have received, a Bachelor's Degree, Master's Degree or Ph.D. program in a relevant field, (preferably in Mathematics, Statistics, Data Science, Computer Science, Engineering, Geography, Earth/Geo Science, Public Health/Policy, Physical/Environmental Science, Business, Social/Behavioral Science).

The ideal candidate will have a combination of the following skills and/or experiences:

- Data Processing using SAS, R, Python, and/or SQL: (1) Read and merge multiple datasets; (2) Perform record linkage across disparate datasets; (3) Clean data to produce a final analysis-ready dataset.
- Programming using SAS, R, Python, and/or SQL: Develop reusable programs and scripts to facilitate data processing, cleaning, and retrieval efforts.
- Statistical Analysis using SAS, R, and/or Python: (1) Perform descriptive & inferential analysis; and (2) Perform data mining & predictive modeling.
- Geospatial and Visualization using ESRI suite and/or Tableau: (1) Extract geographic information; and (2) Visualize data in dashboards including tables, charts, and maps.
- Record Management: (1) Document data processing and analysis methods & results; and (2) Write a technical report and a journal paper.

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

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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.

Applications should be submitted by April 25, 2021 to receive full consideration. Applications will be accepted and considered on a rolling basis until the position is filled.

If you have questions, please send an email to [USDOT@orau.org](mailto:USDOT@orau.org) . Please list the reference code for this opportunity in the subject line of your email.

**Eligibility  
Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
- **Discipline(s):**
  - **Business** ([2](#) 👁)
  - **Computer, Information, and Data Sciences** ([9](#) 👁)
  - **Earth and Geosciences** ([1](#) 👁)
  - **Engineering** ([8](#) 👁)
  - **Life Health and Medical Sciences** ([2](#) 👁)
  - **Mathematics and Statistics** ([7](#) 👁)
  - **Other Non-Science & Engineering** ([1](#) 👁)
  - **Physics** ([2](#) 👁)
  - **Social and Behavioral Sciences** ([10](#) 👁)
- **Age:** Must be 18 years of age