Opportunity Title: Data Research Fellow
Opportunity Reference Code: USDOT-2024-DRF

Organization U.S. Department of Transportation (DOT)

Reference Code USDOT-2024-DRF

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

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Description

Who we want to invite:
We are looking for a paid Fellow trained in data driven disciplines. This is a great opportunity to strengthen your programming and analysis skills with national data and to gain invaluable experience working with subject-matter experts. The ideal candidate will be experienced in data processing, programming, statistical analysis, 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 analysis and research skills to help shape the best U.S. transportation system!

How you will contribute:
You will be 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.

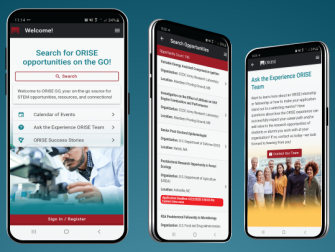
You will be involved with developing and implementing transportation data development programs through several projects. You will apply data analytics techniques to collect, augment, and analyze transportation data. You will be involved with researching administrative and auxiliary data sources to enhance the transportation data. Strong communication, coordination, and teamwork skills are essential to be successful in this role.

Application Due:
Applications should be submitted by September 30, 2024, to receive a full consideration. Applications will be accepted and considered on a rolling basis until the position is filled.

Qualifications The appointed Data Research Fellow must have received a Bachelor's Degree, Master's Degree or Ph.D. program in a data driven discipline required (e.g., Mathematics, Statistics, Data Science, Economics, Computer Science, Engineering, Social and Behavioral Science, Operation Research, Business Logistics, or Information Systems).

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What you will bring:

The ideal candidate will have a combination of the following skill and experience:

- Experience: Develop reusable programs and scripts to facilitate data processing, cleaning, and retrieval efforts using programming languages such as SAS, R, Python, and/or SQL.
- Data Processing Skill: (1) Read and merge multiple datasets; (2) Perform record linkage across disparate datasets; (3) Clean data to produce a final analysis-ready dataset.
- Statistical Analysis Skill: (1) Perform descriptive & inferential analysis; and (2) Perform data mining & predictive modeling.
- Communication Skill: (1) Possess strong written and verbal communications skills; (2) Document data processing; and analysis methods & results; and (3) Write a technical report.

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.

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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:** 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 👁)

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  - **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