There is a research opportunity in the Office of Railroad Safety, Federal Railroad Administration (FRA) at the U.S. Department of Transportation (DOT) in the Washington, D.C., area.

At the Federal Railroad Administration (FRA), we believe that rail moves America forward. The FRA’s mission is to enable the safe, reliable, and efficient movement of people and goods for a strong America, now and in the future. FRA executes this mission through development and enforcement of safety regulations, investment in passenger and freight rail services and infrastructure, and research into and development of innovations and technology solutions.

As a research participant at the FRA you will (1) help develop data science products, such as models for mitigating railroad safety risk, and (2) help develop analytics tools to draw insights and knowledge from the internal and external data, to realize the potential mission impact data science and analytics tools could have at the FRA.

The appointment will provide training and opportunities for developing and implementing creative approaches to improve and refine the railroad safety data analytics lifecycle via scripting, programming, and other methods. The participant will have opportunities for publications and presentations of research in professional journals and to the scientific communities and we strongly encourage these activities. Appointments are initially for one year, with the possibility of extension, contingent upon project suitability and the availability of funds.

**Stipend:** $60,000 - $85,000 (commensurate with education level and experience)
**Professional Development/Conference Travel:** $4,000
**Relocation:** $4,000
**Health Insurance Allowance:** $3,000

The ideal candidate will have:

- A Master’s degree in engineering, natural sciences, computer sciences, mathematics/statistics or a closely related discipline.
- Knowledge of data science technologies and tools, cloud-based analytics, statistical modeling and statistical graphics, open source data management software, data conversion, data analysis, data management, metadata and data visualization.
- Excellent communication (oral and writing) skills, and excellent organization and decision-making skills. Strong interpersonal skills and working effectively as a team member are essential.
- Applicants should have received their most recent degree within five years prior to the start date.

The start date is flexible. You may start anytime between November 2018 and January 2019.

The USDOT is actively reviewing applications and is looking to fill positions as soon as qualified applicants are identified.
For a full description of this opportunity and to submit your application, visit

If you have any questions, please send an email to USDOT@orau.org.

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