



Master's Student Position in Transportation Engineering – January 2027

Dr. Alyssa Ryan is an Assistant Professor in the Department of Civil & Environmental Engineering at Michigan State University. The [Ryan Research Group](#) focuses on leveraging emerging technologies and data analytics to address global transportation safety, community, access, and economic challenges.

Dr. Ryan is recruiting an **M.S. student** in transportation engineering beginning in January 2027. The position will be funded, including a tuition waiver, research assistantship, and [MSU Graduate Assistant benefits](#). Funding for travel and participation at professional conferences will also be provided.

The selected student will engage in research in one or more of the following areas:

1. **Applied crash data analysis** to understand injury outcomes and risk patterns across different roadway environments, demographic groups, and technologies.
2. **Development of practical tools and evaluation methods** to support transportation agencies in making more effective and safer infrastructure and program investments.
3. **Field, driving simulator, bicycle simulator, and human factors research** examining responses to new technologies, alerts, and infrastructure conditions.

Qualifications: Perspective students must have a bachelor's degree in Civil Engineering or a related field and a minimum GPA of at least 3.0 out of 4.0. Experience in data analysis, statistical modeling, programming (such as in R, Python, etc.), GIS, and/or human factors research is preferred. Minimum application requirements set forth by the MSU Department of Civil & Environmental Engineering can be found [here](#).

Dr. Alyssa Ryan is an Assistant Professor of Civil and Environmental Engineering at Michigan State University. She leads the Ryan Research Group, which focuses on transportation safety, human factors, and infrastructure planning. Her research supports public agencies and communities by applying crash analysis, field observation studies, simulation, and technology evaluations to improve safety, access, and resource allocation. Dr. Ryan's work appears in journals including *Accident Analysis & Prevention*, *Transportation Research Part F: Traffic Psychology and Behaviour*, and *Transportation Research Part D: Transport and Environment*. She is an active member of TRB, ITE, and ASCE and is deeply engaged in collaborative and applied transportation research across the U.S.

Michigan State University is a leading public research institution and a top global university, known for its commitment to student success, research excellence, and community impact. As Michigan's land-grant university, MSU tackles critical challenges through innovation, education, and outreach that serve the state, the nation, and the world. Located in East Lansing, MSU offers a vibrant campus community and access to the natural beauty and resources of Michigan.

Complete the online form here to express interest: <https://forms.gle/712puDWBV9BhAspQ7>. Expressions of interest will be reviewed on a rolling basis.

Contact information for questions: ar@msu.edu