

UMEC Research

Each year, UMEC funds several core projects at its member universities and a few collaborative projects conducted jointly by faculty among its universities.

The three universities bring a wealth of research facilities and knowledge to UMEC.



At Virginia Tech, researchers take advantage of the Smart Road,

a 2.2-mile test track that features all weather-testing, bridges and signalized intersections. At Morgan State University, two state-of-the-art driving simulators allow researchers to safely study driver behavior in complex situations, and its modeling capabilities allow study of urban mobility. The Center for Advanced Transportation Technology Laboratory at the University of Maryland solves important transportation, safety, and security problems through innovative technology deployments and user-centered design of software and information visualization systems.



VirginiaTech[®] Transportation Institute

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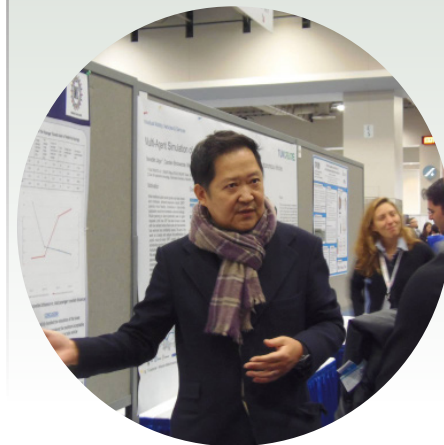
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Urban Mobility & Equity Center at Morgan State University



The Urban Mobility & Equity Center (UMEC) is federally funded as a Tier 1 research center through the Fixing America's Surface Transportation (FAST) Act.

UMEC focuses on research to improve urban mobility of people and goods in an environmentally sustainable and equitable manner. Based at Morgan State University, UMEC includes the University of Maryland and Virginia Polytechnic Institute and State University (Virginia Tech).



UMEC's core and competitively awarded research projects center on three research themes:

- Transit/paratransit and freight planning and operations to improve mobility, access and cost efficiency;
- Buyer acceptance, affordability and government promotion of connected and automated vehicles, including social equity considerations; or
- Distribution of transportation costs and benefits.

For a complete list of our research, visit www.morgan.edu/umec



UMEC Programs

The **Summer Transportation Institute** is a four-week day program for high school students that introduces them to the transportation and engineering fields. STI students enjoy field trips, speakers, interaction with industry professionals, SAT preparation, and recreation.



The year-long **Maryland Department of Transportation/Morgan State University Graduate Student Internship** program gives students meaningful and practical work experience in a state transportation agency.

Juniors and seniors gain work experience and agency mentors through the **Maryland State Highway Administration Summer Internship** program.



UMEC also works with the community to ensure that its research is relevant. It helps sponsor events and invites community leaders to share their ideas and concerns.

Tech Transfer

UMEC's research focuses on improving processes, developing technologies and algorithms, and understanding driver behavior. Research outputs include new practices, new or improved processes, technologies, software, training and other products resulting from R&D activities.

