Transportation and Urban Systems

Department Information

- **Department Chair:**
  Tim Peterson, Ph.D.
- **Academic Coordinator:**
  Jody Bohn Baldock
- **Email:**
  jody.bohn.baldock@ndsu.edu
- **Department Location:**
  Upper Great Plains Transportation Institute, QBB 418
- **Department Phone:**
  (701) 231-7767
- **Department Web Site:**
  [http://www.ndsu.edu/business/programs/graduate/mtus/](http://www.ndsu.edu/business/programs/graduate/mtus/)
- **Application Deadline:**
  July 1 for fall semester; December 1 for spring semester; April 1 for summer semester
- **Credential Offered:**
  M.S., M.T.U.S., Certificate - All programs offered online only
- **English Proficiency Requirements:**
  TOEFL iBT 71; IELTS 6; Duolingo 100

Faculty

**Raj Bridgelall, Ph.D.**
North Dakota State University, 2015
Research Interests: Big Data Analytics, Internet-of-Things (IoT), Cloud Computing; Connected and Autonomous Vehicles (CAV), Shared Mobility, Intelligent Transportation Solutions, Signal Processing and Mathematical Modeling of Transportation Systems; Remote Sensing with Unmanned Aircraft Systems; Hyperspectral Image Analysis; Radio Frequency Identification (RFID); Real-Time Locating Systems (RTLS); Energy Harvesting and Massive Scale Autonomous Wireless Sensor Networks
Department: Transportation, Logistics, and Finance

**Robert Froberg, Ph.D.**
North Dakota State University, 2019
Research Interests: Transport of Rolling Stock, Equipment, and Supplies to Austere Locations, Austere Environment Sustainment Planning, Transportation Analysis and Planning for Logistics, Supply Chain Planning, Assessment, and Optimization Leveraging (Big) Data, Modeling of Supply Chains and Transportation Networks
Department: Transportation, Logistics, and Finance

**Ranjit Godavarthy, Ph.D.**
Kansas State University, 2012
Research Interests: Public Transportation in Small Urban and Rural Areas, Demand Response Transit and Paratransit, Bike Share, Roundabouts, Traffic Engineering and Operations, Transportation and Highway Safety
Department: Transportation, Logistics, and Finance

**Pan Lu, Ph.D.**
North Dakota State University, 2011
Research Interests: Connected and Autonomous Vehicles, Smart Material and Structure Health Monitoring, Big Data Analytics for Transportation, Smart Transportation, Transportation System, Asset Management, Multimodal Transportation, Geospatial Transportation Modeling
Department: Transportation, Logistics, and Finance

**Jeremy Mattson, Ph.D.**
North Dakota State University, 2017
Research Interests: Public Transportation, Transportation Economics, Demand Modeling, Travel Behavior, Built Environment
Department: Transportation, Logistics, and Finance

**Diomo Motuba, Ph.D.**
North Dakota State University, 2009
Transportation and Urban Systems

Research Interests: Transportation and Land Use Planning, Freight Modeling, Transportation Economics, Connected Automated Vehicles, Logistics and Supply Chain Management, Transportation Safety
Department: Transportation, Logistics, and Finance

Tim O. Peterson, Ph.D.
Texas A&M University, 1988
Research Interests: Managerial Leadership, Application of Information Technology to Organizational Issues, Scholarship of Teaching
Department: Management and Marketing

Fred Riggins, Ph.D.
Carnegie Mellon University, 1994
Research Interests: Economics of Information Systems, Interorganization Systems, Adoption of New Technology, Radio Frequency Identification (RFID), Internet-of-Things (IoT), Blockchain, Cryptoeconomics, Information and Communication Technology in Microfinance
Department: Accounting and Information Systems

Robert Swearingen, Ph.D.
North Dakota State University, 2019
Research Interests: Change Management in Supply Chain Organizations, Lean Inventory Management Process Improvement Supported by Value Stream Mapping, Enterprise Information Systems Supporting Supply Chain Management
Department: Transportation, Logistics, and Finance

Joseph Szmerekovsky, Ph.D.
Case Western Reserve University, 2003
Research Interests: Project Management and Scheduling, Supply Chain Management and Technology, Energy Supply Chain Management, Healthcare Logistics
Department: Transportation, Logistics, and Finance

Denver Tolliver, Ph.D.
Virginia Polytechnic Institute and State University, 1989
Research Interests: Highway Systems Modeling, Multimodal Transportation Planning, Freight Transportation, Energy and Environmental Analysis
Department: Transportation, Logistics, and Finance