Roanoke Valley STEM Teacher Roundtable

January 30, 2019
My Story

• Bachelor of Science in Civil Engineering
• Bachelor of Science in Ethics, Policy and the Environment
Critical Skills

• Problem Solving
• Desire to Learn
• Communications
As the District Traffic Engineer

• Analysis & Design for Traffic Control Devices
  • Signals, Signs, Markings, etc
• Maintenance of Traffic
• Safety Analysis & Mitigation
• Traffic Simulation Work
• Speed Limits
VDOT’s Mission

To plan, deliver, operate, and maintain a transportation system that is safe, enables easy movement of people and goods, enhances the economy and improves our quality of life
VDOT’s Salem District

- 12 Counties
- 118 miles of Interstate roads
- 977 miles of Primary roads
- 7000 miles of Secondary roads
- 2,878 bridges
- 181 traffic signals
Location and Design

- Project Development & Design
- Survey
- Drainage
Structure and Bridge

- New Structure Design
- Inspection
- Sign Structures
Environmental

- Regulatory Compliance – National Environmental Policy Act (NEPA)
- Cultural Resources – Archaeological & Architectural Surveys
- Natural Resources – Wetlands, Threatened & Endangered Species
- Haz Mat – Site Assessments, Underground Storage Tanks (UST) Removal, Asbestos
Construction

- New Roadways, Bridges, & Interchanges
- Bridge Demo & Reconstruction
- Paving
Operations

- Real Time Traffic Operations (TOC)
- ITS (Cameras, Signs, Signals)
- Tunnels
- Traffic Simulation & Analysis
Maintenance

- Emergency Operations
- Citizens Interaction
- Local Government Coordination
Opportunities at VDOT

• Intern & Scholar Program
• Core Development Program

• On-line Job Search-
  http://www.virginiadot.org/jobs/default.asp
Thank you for the opportunity to share STEM opportunities at VDOT!

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