



Navajo Technical University Internship [2018]

Description and Objectives

The Navajo Technical University Internship is a (recurring) one-month, fully-paid, summer internship that provides support for two Navajo Technical University students to travel to Louisiana State University (LSU) and work onsite on select Tran-SET-funded research projects. It is a partnership between LSU and the Navajo Technical University with funding from LSU's College of Engineering, Department of Construction Management, and Tran-SET.

The Internship is part of Tran-SET's initiative to advance the transportation workforce and to develop its next generation of leaders by: (1) attracting and supporting diverse, promising individuals to the transportation field and (2) providing experiences through education and cutting-edge research to more properly prepare these individuals as they enter the workforce.

The Internship includes three synergistic components: (1) hands-on research experience on several Tran-SET-funded projects as a student worker (main component), (2) presentation series on diverse, relevant transportation topics, and (3) informal sessions with varied transportation professionals (from industry, practitioner community, and state and federal government).

Tran-SET

Tran-SET is Region 6's University Transportation Center. It is a collaborative partnership between 11 institutions across 5 states (AR, LA, NM, OK, and TX). Tran-SET is led by LSU. It was established in late-November 2016 "to address the accelerated deterioration of transportation infrastructure through the development, evaluation, and implementation of cutting-edge technologies, novel materials, and innovative construction management process."

For more information regarding Tran-SET, please visit [their website](#).

For detailed information on current Tran-SET research projects, please visit [Tran-SET's website](#).

Schedule

Table 1. Schedule

Date	Description
June 4 th	<i>First day of internship</i>
June 4 th – June 15 th	<i>Students work on first assigned Tran-SET project</i> One student assigned to Dr. Osama Osman on projects: 17ITSLSU09 One student assigned to Dr. Navid Jafari on projects: 17GTLSU04
June 7 th 12:00-1:00 pm	<i>Topical presentation #1</i> "Evaluation of the Performance and Cost-effectiveness of Engineered Cementitious Composites (ECC) Produced from Region 6 Local Materials" – Mr. Hassan Noorvand Students to meet in CM Suite Conference Rm PFT

Date	Description
2:00 – 4:00 pm	<i>Informal session #1</i> Site visit to FHWA LA Division Office; FHWA staff to provide overview of program, their role, and job duties. Students to meet Mr. Christopher Melson in Rm #3315K PFT at 1:30 pm
June 12 th 12:00 – 1:00 pm	<i>Informal session #2</i> Site visit to Capital Region Planning Commission (CRPC); CRPC staff to provide overview of the planning process, role of MPO, and job duties Students to meet Mr. Christopher Melson in Rm #3315K PFT at 11:30 am
June 14 th 12:00–1:00 pm	<i>Topical presentation #2</i> “Development of a Self-Healing and Rejuvenating Mechanisms for Asphalt Mixture Containing Recycled Asphalt Shingles” – Dr. Max Aguirre Students to meet in CM Suite Conference Rm PFT
June 18 th – June 29 th	<i>Students work on second assigned Tran-SET project</i> One student assigned to Dr. Christofer Harper on projects: 17PPLSU07 One student assigned to Dr. Ayman Okeil on projects: 17STLSU03
June 20 th 12:30 – 1:30 pm	<i>Informal session #3</i> Presentation and discussion with Deep South ITE Vice President, Mr. Bert Moore; Mr. Moore will provide an overview of his career experience in traffic operations from both the private and public sector Students to meet in CM Suite Conference Rm PFT
June 21 st 12:00–1:00 pm	<i>Topical presentation #3</i> “Overview of Connected and Automated Vehicles (CAVs) and their Potential Operational Impacts” – Mr. Christopher Melson Students to meet in CM Suite Conference Rm PFT
June 25 th 12:00 – 1:00 pm	<i>Informal session #4</i> Presentation and discussion with Deep South ITE President, Mr. Daniel Helms; Mr. Helms will provide an overview of his career experience in highway safety from both the private and public sector Students to meet in CM Suite Conference Rm PFT
June 27 th 12:00–1:00 pm	<i>Informal session #5</i> Site visit to Alliance Safety Council; Ms. Kathy Trahan (President/CEO) and Ms. Sheri Bankston (Director of Education) will give an overview of the Council’s mission, capabilities, and services. Students to meet Mr. Christopher Melson in Rm #3315K PFT at 11:30 am
June 29 th	<i>Internship Ends</i>

Note: Blue-highlighted events are open to all local students.

It is important to note that the topical presentations and informal sessions are **open to all local students** and not just the student interns (highlighted in blue). These events are a great opportunity to learn more about various transportation topics and to meet active professionals in the field. Interested students should contact Mr. Christopher Melson (at cmelson1@lsu.edu or 225-578-3805).