

UNDERGRADUATE INTERNSHIP APPLICATION 2014-2015 NIATT PROGRAM



National Institute for Advanced
Transportation Technology

Application

By completing and submitting this application, I confirm that if I receive a NIATT Internship, I will work on a research project for an hourly rate, submitting bi-weekly timesheets. I understand that I will be responsible for making a presentation concerning my research as arranged by my NIATT advisor.

PLEASE PRINT CLEARLY.

Name _____
Current Mailing Address _____
Email (official UI email) _____
Cell phone number _____
Schools attended and degrees received prior to UI, if applicable (include GPA for each)

Attach a short paragraph explaining why you would like to have a NIATT internship.

Degree Program at UI (include GPA) _____ Circle: Freshman (9.50/hr)
_____ Sophomore (\$10.00/hr)
If your overall GPA is <2.80, the supporting faculty member MUST attach a letter of support! Junior (\$10.50/hr.)
Senior (\$11.00/hr.)

Your application must be approved (below) by a NIATT researcher (see names on back). That faculty member will direct your research and sign your timesheets.

Signature of NIATT Advisor: _____
Project on which intern will work: _____
Budget to charge AFTER the \$1,000 internship dollar amount is reached: _____

NOTE: a letter of support MUST be attached if the student's overall GPA is <2.80.

My signature indicates my willingness to direct the research of the applicant; sign timesheets; attend and hold the student responsible for making a presentation before an undergraduate class, at the Expo or elsewhere.

SUBMIT APPLICATION ASAP!! Announcement of selected interns will be made as soon as possible after the application is submitted. **DO NOT** begin working until Tami notifies you of the approval.

Please return application to:

Tami Noble; NIATT; University of Idaho EPB 115A
875 Perimeter Dr. MS0901, Moscow, Idaho 83844-0901; 208-885-0576; tnoble@uidaho.edu

NIATT AFFILIATED FACULTY

CENTER FOR TRAFFIC OPERATIONS AND CONTROL

- Ahmed Abdel-Rahim (Civil Engineering)
- Suat Ay (Electrical and Computer Engineering)
- Denise Bauer (Mechanical Engineering)
- Kevin Chang (Civil Engineering)
- Brian Dyre (Psychology and Communication Studies)
- Tim Frazier (Geography)
- Jim Frenzel (Electrical and Computer Engineering)
- Brian Johnson (Electrical and Computer Engineering)
- Axel Krings (Computer Science)
- Michael Kyte (Civil Engineering)
- Michael Lowry (Civil Engineering)
- Richard Wall (Electrical and Computer Engineering)

CENTER FOR CLEAN VEHICLE TECHNOLOGY

- Steve Beyerlein (Mechanical Engineering)
- Ralph Budwig (Mechanical Engineering, Boise)
- Dan Cordon (Mechanical Engineering)
- Brian He (Agricultural and Biological Engineering)
- Herb Hess (Electrical and Computer Engineering)
- Armando McDonald (Forest, Rangeland, and Fire Sciences)
- David McIlroy (Physics)
- Edwin Odom (Mechanical Engineering)
- Jon Van Gerpen (Agricultural and Biological Engineering)
- Tao Xing (Mechanical Engineering)

CENTER FOR INFRASTRUCTURE TECHNOLOGY

- Fouad Bayomy (Civil Engineering)
- SJ Jung (Civil Engineering)
- Richard Nielsen (Civil Engineering)
- Sunil Sharma (Civil Engineering)

NIATT'S TIER-1 UNIVERSITY TRANSPORTATION CENTER

TranLIVE (Transportation for Livability by Integrating Vehicles and the Environment) is a university research collaboration focused on developing technologies to reduce the environmental impact of the transportation system. Our mission is to help the United States achieve the goals of a cleaner environment and greater energy independence through (1) eco-traffic signal system technologies, (2) eco-routing tools, and (3) alternative fuels and vehicles.

Our mission is accomplished through our work on four goals:

Goal 1: Integrate real-time data systems and advanced transportation applications to better manage congestion while minimizing environmental impacts.

Goal 2: Develop modeling, simulation, and visualization tools that assess energy, environmental, and emission impacts of transportation systems to support transportation decision making at the local, regional, and national levels.

Goal 3: Increase the number of students in our research and education programs and use advanced curriculum design to enhance the transportation workforce.

Goal 4: Transfer the results of our research program to practicing professionals in forms that are usable to them to improve the quality and performance of our workforce.

The University of Idaho in Moscow, Idaho leads the TranLIVE Tier 1 University Transportation Center, which is funded by the Department of Transportation's (DOT) Research and Innovative Technology Administration (RITA). Collaborators in the center are Old Dominion University (ODU), Syracuse University (SU), Texas Southern University (TSU: an HBCU—Historically Black College/University), and Virginia Polytechnic Institute and State University (Virginia Tech: VT).

NIATT'S REGIONAL UNIVERSITY TRANSPORTATION CENTER

NIATT is also part of the newly established Pacific Northwest Transportation Consortium, or PacTrans. This regional UTC focuses on safe and sustainable transportation in environments ranging from busy urban centers to remote mountainous terrain.

The consortium, one of the Transportation Department's 10 newly funded regional centers, will represent Washington, Oregon, Idaho and Alaska. Institutional partners are Oregon State University, the University of Alaska Fairbanks, the University of Idaho and Washington State University. PacTrans funds research that addresses the broad themes of safety and sustainability, in projects such as:

- Assessing the effectiveness of statewide bans on driving and texting.
- Using video and traffic-monitoring data to better understand how vehicles, transit, pedestrians and bicyclists travel on arterial streets.
- Conducting a survey to measure the success of various driving-reduction programs.
- Developing a system to manage roadside slopes at risk of collapsing and impeding traffic during earthquakes or storms.