GRADUATE ASSISTANTS
in
ENVIRONMENTAL ENGINEERING

Ultrafine Particulate Emissions from Vehicles

Seeking motivated graduate students to conduct independent interdisciplinary research on airborne particle organic chemistry and/or modeling ultrafine particle emissions from light-duty vehicles.

Join a new graduate research group at UVM* to study:

- Chemical and Physical Properties of Vehicle-derived Particles
  - How do exhaust particles form and age during their atmospheric lifetime?
  - Where does all that tire-wear material go?
- Spatial Distribution of Particles
  - How does roadway character affect emissions and formation of “hot spots”?
- Modal Emissions Modeling for Light-duty Vehicles
  - How does the way you drive affect your tailpipe emissions?
  - How can we predict urban air quality in the future?

Graduate Research Assistant candidates should have B.S. or M.S. in environmental engineering/science, excellent organizational and English writing skills, experience with computer programming and statistics, and ability to work independently. Experience with vehicle modal emissions models, GIS, organic and inorganic chemical analytical methods (GC/MS, HPLC, ICP-MS, LC-MS, SFE), gas/particle field sampling and interest in field and laboratory work desirable.

STEP 1. EXPLORE OPTIONS: Email a cover letter stating specific research interests, experience and brief (1-2 page) research proposal outline to Dr. Britt A. Holmén, Associate Professor, Civil & Environmental Engineering Programs, The University of Vermont, baholmen@ems.uvm.edu
Contact Dr. Holmén by December 15, 2006 to receive full consideration for 2007 admission.

STEP 2. APPLY TO UVM: See the Graduate College website at: http://www.uvm.edu/~gradcoll/

http://www.uvm.edu/~cems/

*University of Vermont, Burlington, VT 05405