

National Research Council (NRC) Post Doctoral Associate Positions

<http://nrc58.nas.edu/RAPLab10/Opportunity/Program.aspx?LabCode=50>

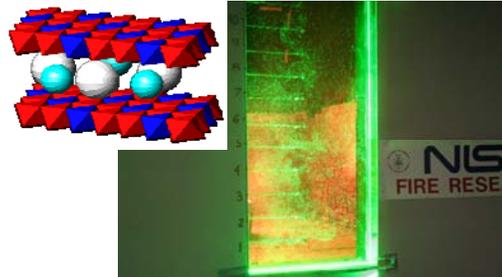
Fire Research Division, Engineering Laboratory (EL) National Institute of Standards and Technology (NIST) Gaithersburg, MD

The Fire Research Division announces 2 year post-doctoral opportunities through the NRC Research Associates Program for engineers, mathematicians, and physical scientists who have received a PhD within the last five years. **U.S. citizenship is required.** Refer to the NRC website above for more information on the application process. Applications are accepted Feb. 1, May 1, Aug. 1, and Nov. 1. The annual salary is \$64,700.

Proposals are solicited on fire safety topics, including:

Fire Metrology

- Velocity, Radiation, Heat Release Rate and Species Measurement in Large Fires
- Measurement of Soot and Smoke Properties

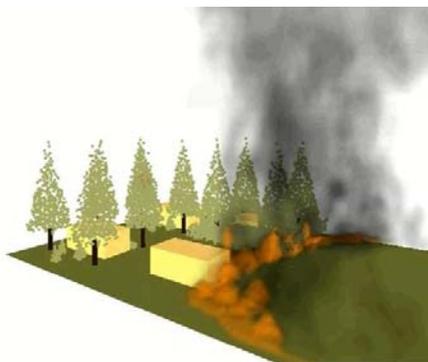


Fire Simulation

- Fire Dynamics Using Large Eddy Simulation/Direct Numerical Simulation Techniques
- Modeling and Visualizing Fire Dynamics
- Predicting Fire Spread and Growth

Flammability and Material Behavior in Fire

- Polymer Nanocomposite Flammability
- New Fire Retardant Materials
- Modeling Materials that Melt and Drip in Fire
- Reaction Rate Theories for Large Molecules in Condensed Phases



Fires at the Wildland-Urban Interface

- Simulation of Fire Spread and Smoke Movement
- Firebrand Generation
- Ignition of Fuel Beds and Structures by Firebrands

Applied Fire Safety

- Detection and Evacuation
- Advanced Firefighting Technology
- Fire Suppression including Droplet Dynamics



Detailed descriptions of the research opportunities and contact information for research advisors can be found at the above web site, or by sending an Email to: anthony.hamins@nist.gov
Information on fire research at NIST can be found at: http://www.nist.gov/el/fire_research/index.cfm

NIST