



The Combustion Institute

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Postdoctoral Position: Fire Dynamics at the National Institute of Standards and Technology (NIST)

Outstanding applicants are sought for postdoctoral fellowships through the National Research Council's Research Associate Program for work at the Fire Research Division at NIST, located in Gaithersburg, Maryland. Research is focused on fundamental experimental studies of fire dynamics with an emphasis on the transient heat and mass transfer processes in turbulent pool fires burning various types of fuels. The experimental measurements are used to evaluate the Fire Dynamics Simulator (FDS), NIST's CFD fire model. Non-intrusive and probing methods are used to measure the transient temperature and velocity fields, species composition, particulate concentration, radiative-transfer, energy feedback from the fire to the fuel surface, and the yields of smoke, carbon monoxide, and other species. Compartment fire dynamics are also of interest.

Essential Requirements

- US citizenship
- Ph.D. in Engineering or a Physical Science at time of appointment
- Strong academic background and publication record
- Excellent oral and written communication skills
- The ability to work effectively with others

Terms

- Two year tenure
- \$71,000 annual salary with \$3,000 in travel funds
- For more information, see:
<http://nrc58.nas.edu/RAPLab10/Opportunity/Program.aspx?LabCode=50&ReturnURL=%2fRAPLab10%2fOpportunity%2fPrograms.aspx%3fLabCode%3d50>

How to Apply

- A research proposal (6 to 8 pages) formulated with the research adviser
- Email CV to Anthony Hamins: anthony.hamins@nist.gov

Combustion Job Opportunity

- Apply by August 1 (for a January to June start) or February 1 (for a July to December start)
- For detailed instructions visit:
<http://nrc58.nas.edu/RAPLab10/Opportunity/Opportunity.aspx?LabCode=50&ROPCD=507331&RONum=B4446>

To learn more about NIST's Fire Research Division: <https://www.nist.gov/el/fire-research-division-73300>

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