

R&D Position in Physics, Electrical, or Mechanical Engineering

BlazeTech Corporation has a full-time opening for a Ph.D. or M.S. graduate in Physics, Electrical, Mechanical, Materials, or Aeronautical Engineering.

Job Description:

Perform tests on an innovative filtration device of fine particles involving both mechanical and electrostatic mechanisms. Ability to model particle behavior is also a plus. Formulation of key small- and large-scale tests to be performed in house or at national test facilities.

Requirements:

- Relevant coursework in electrostatics, electromagnetism, particle dynamics, optics, or fine particle measurements
- Experience working with and/or the measurement of fine particles
- Ph.D. or M.S. graduate (please attach transcript, unofficial OK)
- Willingness to work on a wide spectrum of commercial and military projects both independently and in a team
- Strong written and verbal skills
- US Citizenship (preferred) or Permanent Residency

General:

Founded in 1987, BlazeTech is a leader in providing technology, engineering and computational services in environmental safety and energy for civilian and military applications. Over the years, we have developed innovative and cost-effective solutions for many problems of national importance. Recently, we focus on major hazards and homeland defense threats that pose risks to people, property, and the environment. Sample projects include:

- Innovative filter for use with lunar and Mars dust
- Development of a control software for a microgrid
- Fire/explosion in aircraft fuel tanks under accidental and combat conditions
- Failure of metallic and composite structures under dynamic loadings
- Scaling of cookoff of explosives and propellants
- Development of fire suppression systems including a novel foam system
- Measurement of hot surface ignition temperatures
- Protection of Lithium batteries against runaway reactions
- Combustion and neutralization of chemical and biological agents
- Measurement of agglomeration of nanoparticles
- Atmospheric dispersion of reactive chemicals
- Novel low NOx burner and fluidized bed combustors

BlazeTech is a half-way house between academia industry that bridges the gap between theory and practice. Our projects include multi-disciplinary, cutting-edge work in technical areas with high potential for national and market impact. We perform work similar to the R&D department of a major company but our flexibility allows us to be more responsive to current issues. For the self-motivated, the opportunities for innovation and achievement abound – all the way from project conceptualization to commercialization. Commercialization is accomplished through licenses, strategic partnerships and launching of operating companies.

We provide competitive salaries and benefits including medical and dental insurance, 401k and profit sharing. Please send resume and transcripts to Human Resources at the email or address below.