



R&D Position in Combustion, Fire and Explosion

BlazeTech has a full-time opening for a PhD graduate in Mechanical, Chemical, Aeronautical or Fire Protection Engineering with specialization in Combustion.

Job Description:

Modeling the cookoff of energetic materials. Modeling fire and explosion in aircraft, missiles and vehicles for both military and commercial applications. Formulation of key tests to be conducted on large-scale systems in national test facilities to obtain data for model validation. Development of analytical and numerical models to interpret the test data and make predictions, leading eventually to specialized commercial software.

Requirements:

- Relevant coursework or experience in Combustion, Kinetics, Thermodynamics, Reacting Gas Dynamics and Heat Transfer.
- Strong emphasis in analytical methods (CFD background is desirable).
- Willingness to work on a wide spectrum of R&D 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 R&D, product development 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 accomplishments include:

- Scaling of cookoff of explosives and propellants
- Measurement of agglomeration of nanoparticles
- Combustion and neutralization of chemical and biological agents
- Fire/explosion in aircraft fuel tanks under accidental and combat conditions
- Suppress of explosion and hydrodynamic ram
- Atmospheric dispersion of reactive chemicals
- Novel low NO_x burner and fluidized and fixed bed combustors

BlazeTech is a half-way house between academia and industry that bridges the gap between theory and practice. Our projects include multi-disciplinary, cutting-edge work in technical areas with high potential for 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 life, medical and dental insurance, 401k and profit sharing. Please send resume and transcripts to Human Resources at the email or address below.