R&D Position in Fire and Combustion

BlazeTech Corporation has a full-time opening for a PhD graduate in Mechanical, Chemical, Aeronautical Engineering or Physics with specialization in Combustion and Explosion.

Job Description:
Development of cook-off models for explosives and propellants. Development of specialized models of fire and explosion in aircraft, missiles and vehicles for both military and commercial applications. Formulation of key large-scale tests to be conducted in national test facilities to obtain data for model validation.

Requirements:
- Relevant coursework or experience in Combustion, Kinetics, Chemical 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
- Development of fire suppression systems including a novel foam system
- Measurement of hot surface ignition temperatures
- Combustion and neutralization of chemical and biological agents
- Fire/explosion in aircraft fuel tanks under accidental and combat conditions
- Measurement of agglomeration of nanoparticle
- Atmospheric dispersion of reactive chemicals
- Novel low NOx burner and fluidized 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.

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