



R&D Positions in Fluid Dynamics and Combustion

BlazeTech has full-time openings for engineers at the Ph.D. level or MS and equivalent experience.

1. Fluid Dynamics Job Description:

- Optimize, build and test a proprietary instrument to measure particle mass flux in a blast field
- Design a scaled up version of a supersonic blow-down tunnel at a national test facility
- Model aerodynamic heating of missiles
- Must have completed course work in compressible flow and shock waves

2. Combustion Job Description:

- Test and model the combustion of chemical and biological agents (small scales tests in house and large-scale tests at national facilities.)
- Model material interactions with high energy lasers
- Must have completed course work in combustion and chemical kinetics

Requirements for both positions:

- Strong background in Thermodynamics, Fluid Mechanics and Heat Transfer
- Strong emphasis in analytical, numerical or experimental methods
- Strong written and verbal communication skills
- Willingness to work on a number of projects both independently and in a team
- 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:

- Gelling hazardous chemicals to improve safety
- Measurement of nanoparticle agglomerates
- Neutralization of biological agents
- Fire/explosion protection of aircraft fuel tanks under accidental and combat conditions
- Development of software for atmospheric dispersion of reactive chemicals
- Development of novel low NO_x 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 very responsive and tackle new problems. For the self-motivated, the opportunities for innovation and achievement abound – all the way from project conceptualization to commercialization. We provide competitive salaries and benefits including life, medical and dental insurance, 401k and profit sharing. Please send resume and transcripts to office@blazetech.com or to Human Resources at the address below.