



Bachelor or Master Degree in Mechanical or Aerospace Engineering

Job Description:

R&D position to build and test innovative concepts for a self-cleaning dust filter for use in a Mars application and a combustion system to measure flammability of various fuels. This is a hands-on job but our approach is not cut and try but to perform advance calculations to get it right the first time. Ultimate objective is to prove concepts feasibility and build prototypes.

Requirements:

- Relevant coursework in design, instrumentation, structure, fluid mechanics and heat transfer
- Experience with electronics and data acquisition is a plus
- 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're focusing on major hazards and homeland defense threats that pose risks to people, property, and the environment. Sample accomplishments include developments of:

- Models and scaled tests of explosives and propellant cook-off
- Models of structural dynamic response to high-speed impact and blast loadings
- Models of fire, explosion, and hydrodynamic ram in fuel tanks
- Instrumentation for fine particle systems from micro to nanoparticles
- Instrumentation for material detection systems for recycling
- Fire detection and suppression systems
- Model of atmospheric dispersion of reactive chemicals
- Model of fate and transport of chemical and biological agents in water distribution systems
- Combustion and neutralization systems for chemical and biological agents

BlazeTech bridges the gap between academia and industry that combines 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.

We are located just off of Woburn Center which offers many restaurants, amenities, free parking and an express bus to Boston. Email your resume and transcripts (unofficial acceptable). Please, no initial phone calls.