



COMBUSTION RESEARCH AND FLOW TECHNOLOGY, INC.

PROPULSION RESEARCH SCIENTIST

CRAFT Tech has an immediate opening for a Propulsion Research Scientist. CRAFT Tech is seeking motivated and energetic individuals to join its highly talented team focused on developing solutions products for customers in government, academia and industry for multi-disciplinary applications in Aerospace, Defense, Energy and National Security.

CRAFT Tech is located in Pipersville, PA with satellite offices in Huntsville/AL, Oxford/MS and Charlotte/NC. CRAFT Tech offers competitive salaries and a comprehensive benefits package, including health benefits, life insurance, 401(k) plan, vacation and tuition assistance for further education. Interested candidates should email their resume to: jobs@craft-tech.com.

Job Description:

- Collaborate with and support senior staff in performing projects related to propulsive flowfield simulations and related research activities
- Collaborate with CRAFT Tech's partners in government, academia and industry by providing pre-test planning support and post-test data analysis/interpretation
- Interfacing with customers, including development of presentation material, etc.
- Report preparation, proposal development and participation in technical forums

Applicant Qualifications:

- MS/Ph.D. in aerospace, mechanical engineering or related field
- Very strong background with multi-phase, turbulent reactive flows and shock dynamics
- Skills in radiation transport (RT) modeling, computational electromagnetics (CEM), aero-optics (AO), etc.
- Demonstrated experience in development of numerical algorithms for large-scale computational and data analysis software on parallel computing platforms
- Strong programming skills with Fortran, C/C++, Python or other scripting languages
- Excellent communication, very strong writing and interpersonal skills
- Ability to work both independently on R&D developmental programs as well as in a team environment
- US citizenship preferred. Exceptionally qualified candidates who are permanent resident aliens may also be considered

Additional Desired Skills:

- Strong background in multi-disciplinary numerical techniques, linear algebra, applied probability, machine learning, and optimization approaches
- Knowledge of hardware-based computational acceleration (e.g., parallel and GPU computing)
- Experience using commercial software for CAD models, mesh generation, and CFD post-processing
- Experience in writing proposals

Job Location:

Position is available at CRAFT Tech's Pipersville, PA facility