



**The Combustion Institute**

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## **Combustion Modeling Research Scientist**

Combustion Research and Flow Technology, Inc. (CRAFT Tech) has an immediate opening for a Combustion Modeling 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.

### ***Job Description***

- Collaborate with and support senior staff in performing projects related to turbulent combustion modeling, reactive flow simulations and related research activities
- Collaborate with CRAFT Tech's partners in government, academia and industry
- Interfacing with customers, including development of presentation material, etc.
- Report preparation, proposal development and participation in technical forums

### **Essential Requirements**

- M.S. or Ph.D. in aerospace, mechanical engineering or related field
- Very strong background in combustion, multi-phase turbulent reactive flows and shock dynamics as related to energetic materials
- Excellent analytical and technical skills in chemical kinetics, thermodynamics and transport processes, including experience with software tools like Chemkin or Cantera
- Demonstrated experience in development of combustion/physics models and 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 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
- Experience using commercial CFD software, mesh generation, and CFD post-processing
- Experience in writing proposals

***Job Location***

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

**How to Apply**

Interested candidates should email their resume to: [jobs@craft-tech.com](mailto:jobs@craft-tech.com).

Job listing website: <http://www.craft-tech.com/company/careers/>

***The Combustion Institute Disclaimer***

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