

Title: Thermal Science Associate/Engineer  
Location: USA (Natick, MA)  
Company: Exponent Inc.

We are currently seeking a **Mechanical, Aerospace, or Fire Protection Engineer** for our **Thermal Sciences** Practice in **Natick, MA** . In this role, you will be responsible for participating in and leading the investigation and analysis of failures including structures, vehicle and wildland fires, explosions, industrial processes, combustion systems, consumer products, appliances, and automobiles.

**You will be responsible for:**

- Performing engineering calculations and analysis
- Evaluating the performance of mechanical and safety systems
- Utilizing computational techniques such as CFD
- Conducting field work and data collection
- Conducting laboratory testing and assessments
- Planning and executing experimental test programs
- Conducting laboratory assessments of material flammability
- Performing engineering calculations and analysis
- Conducting fieldwork
- Preparing proposals and technical reports, and presenting findings to clients
- Project work may require travel (within and outside of the U.S.)

**You Will Have The Following Skills And Qualifications:**

- **Ph.D. in Mechanical, Chemical, Aerospace, or Fire Protection Engineering (or a related field)**
- Strong technical background in thermodynamics, heat transfer, fluid mechanics, and combustion
- **Deep experience developing and implementing combustion and fire models**
- Outstanding verbal and written communication skills
- Team player capable of working in a fast-paced environment with demonstrated ability to balance multiple competing tasks and demands
- Strong desire and ability to tackle a wide variety of problems within and outside their direct area of expertise
- Outstanding verbal and written communication skills

**Preferred Qualifications:**

- Experience with commercial CFD programs such as ANSYS Fluent, StarCCM+ and fire modeling tools
- Hands-on experience in executing experimental programs

- Hands-on experience in fire protection system design, installation, inspection, testing, and maintenance is a plus
- Prior experience with prescriptive and/or performance-based analysis and application of NFPA and ICC codes and standards preferred
- Strong desire and ability to tackle a wide variety of problems within and outside direct area of expertise

Applicants are encouraged to submit a CV with publications (feel free to include publications that are in review or pending) [not restricted to 1 page].

Job Posting and submission portal: <https://careers-exponent.icims.com/jobs/1557/thermal-sciences-engineer-%28ph.d.%29/job>