



**Position: Staff Consultant**  
**Technical Group: Thermal Sciences**  
**Location: Scottsdale, AZ; Miami, FL; Chicago, IL**

**About ESI:**

Engineering Systems Inc. (ESI) is a forensic engineering and scientific investigation firm committed to providing actionable solutions to industry and technical challenges through data-driven insights and multidisciplinary collaboration. Our experts leverage advanced technologies and professional expertise to equip clients across the globe with comprehensive analyses, and recommendations on projects of any size or complexity.

**What We Can Offer You**

- Medical, Dental & Vision
- Life Insurance/Voluntary Life Insurance/Universal Life Insurance
- 401k with employer match
- Eligible for Spot Bonus, Merit Bonus, and/or Annual Bonus
- Competitive Salary
- Flexible Time Off (FTO) – encouraged to take 20 days of paid time off/year
- Pet Insurance
- Work/Life Balance
- Access to Wellbeats – on-demand fitness & well-being videos
- 10 paid holidays (9 standard holidays and 1 floating holiday)
- Business casual dress code and positive working environment
- Continuing education opportunities

**The Position:**

ESI is looking to fill the position of Staff Consultant in our Thermal Group in Scottsdale, Arizona. This position is responsible for conducting origin & cause investigations of fire and explosion incidents, including site inspection and documentation, evidence examination, research, analysis, testing and reporting. The position will involve evaluations of mechanical systems, mechanical equipment, appliances, motor vehicles, etc. The candidate for this position will be responsible for conducting investigations, codes and standards reviews, document reviews as well as site and laboratory inspections including documentation, evidence examination, research, analysis, testing and reporting. The position will also involve providing testimony in court proceedings, both at depositions and trials, as necessary. Candidate will market the company and self to obtain and/or maintain client base and build business. Plan, manage and coordinate activities for client projects to ensure that goals/objectives of projects are accomplished within prescribed timeframe and funding parameters by performing the following duties personally or with the assistance of other consulting/engineering staff.

**Key Responsibilities:**

- Perform engineering calculations involving fires, explosions, combustion, thermodynamics, fluid dynamics and heat transfer
- Conduct fire and explosion scene examinations
- Plan and conduct experimental programs, including both bench and full-scale fire and explosion tests
- Prepare reports, project summaries and evaluations of expert opinions
- Perform technical literature reviews
- Manage technical projects



**Skills and Qualifications:**

- Ph.D. in Mechanical, Chemical, Aerospace Engineering (or a related field) required
- Previous experience conducting experimental programs including developing and identifying appropriate instrumentation, set-up of data acquisition equipment, post-processing of data collected
- Outstanding written and verbal communication skills
- Desire to work as part of multi-disciplinary teams
- Commitment to professional development including professional engineering licensure, publishing technical papers, and obtaining professional certification

**Other Skills/Abilities or Other Qualifications:**

- Ability to interact with clients in a professional manner and develop business both internally and externally.
- Must be available to travel 50% as part of the national practice of which 33% will be field/site inspections.
- Must be able to work or travel on weekends and holidays as required.

**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. While performing the duties of this job, the employee is occasionally required to stand, walk, climb stairs and ladders, and sit. Site inspections may require that employees stand, walk, carry tools, and/or work from an elevated position for extended periods of time.

**Work Environment:**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. The noise level in the work environment is usually moderate. Noise levels at project sites are variable, and may be loud enough to require hearing protection.

It is the policy of ESI, as an equal opportunity employer, to attract and retain the best qualified individuals available, without regard to race/ethnicity, color, religion, national origin, gender, sexual orientation, age, disability, or veteran status. ESI is committed to recruiting, hiring, and promoting people with disabilities, as well as veterans. If you need assistance with completing the electronic application, please email your request to [employment @ engsys.com](mailto:employment@engsys.com)

For more information, please visit [www.engsys.com/people/careers](http://www.engsys.com/people/careers)