

SOUTHWEST RESEARCH INSTITUTE

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ENGINEER - RESEARCH ENGINEER - Fire Technology

01-01797



Who We Are:

The Fire Technology Department conducts small-scale and large-scale fire testing of items and assemblies for a wide range of industries including commercial construction, marine and automotive. Products are built, instrumented, and evaluated for their fire performance.

Objectives of this Role:

- As an Engineer in the Fire Technology Department, you will perform standard and non-standard fire test programs from start to finish.
- Perform all aspects of fire test programs including pricing, proposal writing, scheduling, construction, testing and reporting.
- Provide support for business development and market SwRI services to current and prospective customers.
- Be a problem-solver that exercises creativity in developing premier solutions for clients in government and industry.
- Work individually and in a team to ensure client goals are met.

Daily and Monthly Responsibilities:

- Perform routine engineering and/or scientific investigations requiring application of standard fire testing techniques and procedures.
- Analyze, interpret and report test results using standardized formats.
- Provide work instructions to technical support staff.
- Write proposals for assigned areas of responsibilities and interact with clients, fire and code officials, and regulatory bodies.
- Ensure projects are completed on time and within budget.
- Maintain and expand volume of work.
- Build new program areas consistent with or related to fire research and testing industry.
- Make suggestions for process improvement.
- Prioritize workload to meet project deadlines.
- Demonstrate proficiency in written and verbal communication and in the use of computer software and hardware typically used in the

field of fire research and testing.

- Troubleshoot and make minor repairs on test equipment.
- Must be able to wear a respirator or PAPR.
- Occasional assignments in moderate to high temperatures and smoky environment.

Requirements:

- Requires a Bachelors degree in Fire Protection Engineering, Mechanical Engineering, Civil Engineering or equivalent engineering degree.
- 0-2 years: Must have coursework in heat & mass transfer, fluids and thermodynamics. Proficient with Microsoft Word, Excel, and PowerPoint. Experience with LabVIEW, AutoCAD and SolidWorks a plus. Experience in project management and fire testing or engineering a plus.
- Self-motivated, ability to multi-task, pay attention to detail, be diligent, exercise good judgment, work independently and as a team member. Able to interact with Client's and provide a high level of customer service.
- Excellent technical writing and verbal communication skills, good organizational and time management skills.
- A valid/clear driver's license is required.

Special Requirements:

Must be a U.S. person (i.e., U.S. citizen, non-U.S. citizen national, lawful permanent resident, asylee, or refugee) due to ITAR work in section.

Job Locations: San Antonio, Texas

For more information about this division, visit the [Chemistry & Chemical Engineering](#) home page.

For benefits information at our San Antonio location, click [here](#).

For benefits information at all other locations, click [here](#).

An Equal Employment Opportunity Employer: race, color, religion, sex, national origin, disability, and veteran status.

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