

Spectral Energies, Air Force Research Laboratory Turbine Engine Division

Combustion and Propulsion Diagnostics Engineer/Researcher Position

Description: Spectral Energies is seeking exceptional candidates with backgrounds in aerospace engineering, mechanical engineering, optics, or closely related fields. Duties are diverse and multi-disciplinary to support and conduct combustion diagnostics engineering and research for Spectral Energies at the Turbine Engine Division Combustion Branch located at Wright-Patterson Air Force Base, Ohio. Applications of interest include fundamental combustion experiments, gas turbine combustors, augmentors, and rotating detonation engines.

Working as part of a larger research team, this individual will apply state-of-the-art combustion diagnostics to support probing and quantifying flow and combustion physics to aid in the development of next generation Air Force propulsion systems.

Summarized Responsibilities Include:

- Work effectively with cross-functional teams to understand technical requirements of various combustion experiments;
- Support the development and application of state-of-the-art optical and laser-based diagnostics in combustion and propulsion systems
- Conduct hands on engineering and research to plan, prepare, and execute measurements
- Maintain scientific equipment and laser laboratory(s)
- Analyze and interpret experimental data
- Communicate results with the appropriate shareholders
- Document and archive engineering and research findings

Skills & Experience Desired:

- Good at problem solving, taking initiatives, and eager to learn
- Excellent written, verbal and interpersonal communication skills
- Previous experience, if applicable, in the application of experimental diagnostics, familiarity with lasers and scientific grade cameras and other diagnostic equipment
- Familiarity (or course work) in engineering, propulsion, fluid mechanics, thermodynamics, and combustion
- Demonstrated skill in engineering and data analysis
- Superior proficiency in MS Office applications (Word, Excel and PowerPoint)

Education: Candidates with all degree types (Bachelors or advanced degrees) are encouraged to apply.

Additional Information: U.S. citizenship required.

Spectral Energies, LLC is an equal opportunity employer that is committed to diversity and inclusion in the workplace. We prohibit discrimination and harassment of any kind based on race, color, sex, religion, sexual orientation, national origin, disability, genetic information, pregnancy, any other protected characteristics as outlined by federal, state or local laws.

This policy applies to all employment practices within our organization, including hiring, recruiting, promotion, termination, layoff, recall, leave of absence, compensation, benefits, training, and apprenticeships. Spectral Energies, LLC makes hiring decisions based solely on qualifications, merit, and business needs at the time.

Location of the full-time open position:

Dayton, Ohio, USA

Interested applicants should send a CV, references, and any questions to:

Brooke Mears

brooke.mears@spectralenergies.com

Employer's name and contact information:

Spectral Energies, LLC

P: 937.256.7733

4065 Executive Dr.

Beavercreek, OH 45430