

Spectral Energies, Propulsion and Detonation Research Engineer Position

Spectral Energies (SE) is an advanced technology company specializing in leading-edge research in the areas of propulsion, hypersonics, diagnostics, and lasers and sensors development. The SE research and development teams specialize in fundamental and applied engineering and research efforts which focus on areas such as civil and defense aerospace propulsion and power.

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 applied propulsion engineering and research often supported with the application of advanced measurements. Areas of engineering and research include high-speed propulsion & combustion systems, rotating detonation engines, small-scale combustion systems, and laser diagnostic and sensor tools application in these environments.

Summarized Responsibilities Include:

- Work effectively with cross-functional teams to understand technical requirements of various experiments and projects
- Conduct hands on engineering and research to plan, prepare, and execute measurements; lead, conduct, and manage experiments and projects
- Support and work alongside individuals in the development and application of optical and laser-based diagnostic tools for applied combustion and propulsion systems
- Analyze and interpret experimental data
- Communicate and document results with the appropriate shareholders
- Document and archive engineering and research findings

Skills & Experience Desired:

- Strong communication and inter-personal skills, and the ability to work in a team
- Proficiency in communicating scientific/technical content in writing, publishing, and oral briefings
- Hands-on experience in the application of engineering theory and practice through technical projects
- Familiarity (or course work) in engineering, propulsion, fluid mechanics, thermodynamics, and combustion
- Demonstrated skill in engineering and data analysis
- Previous experience, if applicable, in the application of experimental diagnostics, familiarity with lasers and scientific grade cameras and other diagnostic equipment
- Broad knowledgebase in aerospace sciences/engineering, applied physics, optics, lasers, or related field
- Competency in data processing (MATLAB, Python, etc.) and 3-D CAD (SolidWorks, Unigraphics/Siemens NX, AutoCAD, etc.) software packages

Qualifications: Master or PhD degrees are encouraged to apply. Candidates with a BS degree and at least a few years of experience will also be considered.

Compensation: Spectral Energies offers highly competitive compensation commensurate with level of education and years of relevant experience. Compensation includes a full benefits package: a retirement plan (401k) with matching contributions; health, dental, and vision benefits; federal holidays; paid time-off; and a merit-based bonus structure.

Additional Information: Candidates must be US citizens. This position is full-time, Monday-Friday (40 hrs/wk nominal) with flexible hours. All positions are subject to background investigations and may require obtaining a DOD Secret security clearance.

Location of the full-time open position:

The research engineer position is located on-site at RQTC at the US Air Force Research Laboratory at Wright-Patterson Air Force Base in Dayton, OH.

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

<https://spectralenergies.com/>

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.