



## Spectral Energies, High-Speed Propulsion 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:** SE is seeking exceptional candidates with backgrounds in aerospace/mechanical engineering, propulsion, and hypersonics. Duties are diverse and multi-disciplinary to support and conduct applied propulsion engineering and research. Areas of engineering and research include high-speed propulsion & combustion systems, rotating detonation engines, rockets, combined cycle systems, and ram/scram/hypersonic systems.

**Summarized Responsibilities Include:**

- Work effectively with cross-functional teams to understand technical requirements of various experiments and projects
- Conduct engineering and research to plan, prepare, and execute R&D efforts, including both experimental and computational efforts
- System-level architecture exploration for advanced propulsion systems
- Analyze and interpret experimental and computational data
- Communicate and document results with the appropriate shareholders
- Document and archive engineering and research findings

**Skills & Experience Desired:**

- Demonstrated ability to deliver to challenging technical objectives through creative problem solving and innovative thinking
- Experience in the application of analytical skills to the development of new technology
- Understanding and experience with propulsion & combustor components and architectures (including gas turbines, rockets, scramjets, rotating detonation engines or other novel combustors) using experimental and/or modeling & simulation methods
- Record of successful engine or component design and technology implementation in aerospace applications, showcasing a deep understanding of advanced propulsion concepts and methodologies
- Proficient knowledge of fluid mechanics, combustion science, and flight vehicles as applied to advanced propulsion technologies
- 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
- Competency in data processing (MATLAB, Python, etc.) and 3-D CAD (SolidWorks, Unigraphics/Siemens NX, AutoCAD, etc.) software packages

**Qualifications:** Master and PhD degrees are encouraged to apply. Candidates with a BS degree and multiple years of experience are also encouraged to apply.

**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 or US permanent residents as required by Department of Defense contracts. 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 security clearance.

**Location of the full-time open position:**

The position is located on-site at Spectral Energies in Beavercreek, Ohio.

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

Chris Fugger

chris.fugger@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.