

Propulsion Performance Engineer

U.S. Citizens ONLY

Innoveering, LLC has an opening for a talented, hands-on Propulsion Performance Engineer to join their team in Bohemia, NY to support air-breathing propulsion or high-speed vehicle technology development.

Founded in 2012, Innoveering is a fast-growing dynamic engineering products and services company with cutting-edge R&D projects in the aerospace, defense and energy sectors, developing high-speed propulsion and power system components, harsh environment sensors, actuators, and control systems. Our customers and partners include the U.S. Government, major aerospace and energy companies, universities and venture capital funded startups. Innoveering is 100% owned by its founders.

RESPONSIBILITIES:

- Provide technical oversight for the rapid development of air breathing propulsion systems
- Lead and support propulsion system design and analysis tasks using various classical methods and engineering codes/tools
- Collaborate with design and test engineers to develop airbreathing engine direct connect and freejet articles
- Plan direct connect and free jet test matrices
- Conduct testing and post-test data analysis to evaluate engine performance and operability for comparison to pre-flight predictions
- Determine engineering tasks required for project planning and execution; Analyze project requirements and develop detailed planning, conceptual designs, and risk analysis
- Interact with internal and external customers; Assist the customer in defining system requirements and in the generation of specifications for products or sub systems
- Develop and present materials for project related briefings including design reviews to be given to internal and external customers
- Support new business and prepare proposal material.

Qualifications:

- U.S. citizenship required
- Bachelor's degree in Science, Technology, Engineering, or Mathematics (STEM) related field from an accredited university and 3+ years of relevant background experience or Master's Degree from an accredited university and 2+ years of relevant background experience.
- Ability to obtain a security clearance
- Specialization in high-speed air breathing propulsion and/or liquid propellant rocket propulsion desirable, or a combination of education and experience equivalent to above
- Working knowledge of compressible gas dynamics and propulsion cycle analysis
- Experience working with the following software packages or analysis techniques preferred:
 - MATLAB and Python development
 - Trajectory analysis and optimization
 - Configuration change management
- Ability to perform quality work within deadlines, with or without direct supervision
- Strong written and oral communication skills and ability to clearly communicate research findings through presentations and reports
- Strong drive for results and continuous improvement

- Superior interpersonal skills with the ability to collaborate and cooperate with others cross-functionally on multiple projects to effectively coordinate activities and accomplish goals
- Critical thinking and problem-solving skills, planning & organizing skills, decision making and time management skill
- Candidate must be capable of performing in a fast-paced, dynamic environment, and working in an inclusive, team environment.

Preferred Qualifications:

- 4+ years of relevant experience or Master's with 3+ years of relevant experience
- Experience with design and analysis of ramjet and scramjet engines and/or liquid propellant rockets and related system design and analysis
- Familiarity with engineering analysis codes for engine flowpath, cycle analysis, and aero-thermal loads development desirable
- Ramjet/scramjet and/or liquid propellant rocket test experience, experience with high-speed vehicle design, propulsion integration and/or trajectory analysis and optimization codes a plus.
- Familiarity with high-speed data acquisition and actuation systems

We offer an encompassing benefits package including Medical, Dental, Vision, 401k, PTO and 11 paid Holidays per year.

Innoveering, LLC is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity/Affirmative Action Employer; making decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class.