HYPERSONICS SCIENCE ENGINEERING TECHNOLOGY

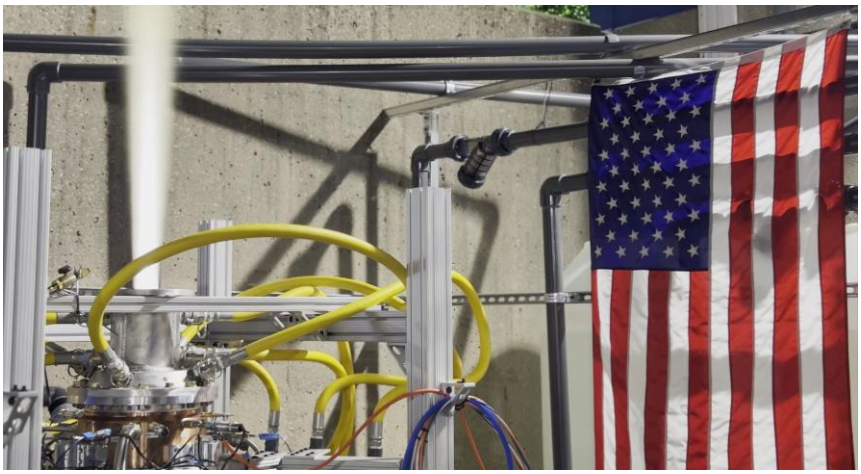
HY-SET LLC

MECHANICAL ENGINEER

Location	Arlington, TX	**Position Type**	Full-Time, Exempt
Work Model	On-Site	**Travel**	Up to 10–20%, as required

ABOUT THE COMPANY

HY-SET LLC is an aerospace engineering firm based in Arlington, TX. HY-SET specializes in providing unique commercial solutions to hypersonics and space-related problems that best fit customer needs including customized ground-testing facilities, advanced laser-based diagnostics, hypersonic propulsion system development, and more. HY-SET's facilities are internationally-recognized for their unique capabilities in hypersonics and space-related ground-testing [Aerospace America 2025].



POSITION SUMMARY

HY-SET LLC is hiring for multiple Mechanical Engineer positions ranging from entry-level to mid-career to join our team working on hypersonics and space-related projects including scramjets, rotating detonation engines, and thermal protection system testing. These positions combine hands-on experimental facility engineering with mechanical analysis and design. These open positions support U.S. Government programs, **require U.S. citizenship**, and may involve export-controlled, proprietary, or classified work.

WHAT YOU WILL DO

Responsibilities and level of technical independence will be tailored to the candidate's experience, with opportunities for mentorship, professional development, and increasing ownership of engineering projects.

- Design and develop mechanical components, assemblies, and systems to support HY-SET's hypersonics and space-related work.
- Perform engineering analyses, including finite element analysis (FEA), to support mechanical designs.
- Create engineering drawings, 3D CAD models, and technical documentation to support design and manufacturing.
- Be a part of the teams working on experimental ground-testing facilities including design, development, troubleshooting, modification, maintenance, and operation.
- Develop internal tools to improve the effectiveness and efficiency of mechanical design processes.
- Work with engineers, research scientists, and technical staff supporting hypersonics and space-related multidisciplinary projects.

REQUIRED QUALIFICATIONS

- Bachelor's degree or higher in Mechanical Engineering, Aerospace Engineering, or a closely related engineering discipline from an accredited institution.
- Experience with 3D parametric CAD and mechanical drawing creation using a mainstream CAD platform such as SolidWorks, Creo, Autodesk Inventor, or equivalent.

- Ability to perform first-principles engineering calculations and use them to sanity-check or validate numerical analysis.
- Ability to read and interpret mechanical drawings, engineering specifications, vendor data sheets, and component performance curves.
- Strong written and verbal communication skills and the ability to document analyses, design decisions, and test results clearly.
- Ability to work independently on well-defined engineering tasks while seeking appropriate technical review for safety-critical, pressure-system, or high-consequence decisions.

SECURITY, CITIZENSHIP & EXPORT-CONTROL ELIGIBILITY

This position may support contracts or research programs subject to U.S. export-control regulations, International Traffic in Arms Regulations (ITAR), Export Administration Regulations (EAR), or U.S. Government security requirements. **U.S. citizenship is required** and depending on assigned programs, the ability to obtain and maintain a security clearance may be required. Final eligibility requirements will be identified for the specific requisition and work assignment.

EMPLOYMENT CONDITIONS

- Full-time, exempt engineering position.
- Primary work location: Arlington, TX. On-site presence required.
- Limited travel may be required.

COMPENSATION & BENEFITS

Competitive salary commensurate with candidate expertise for all open positions.

APPLICATION REQUIREMENTS

- Résumé or curriculum vitae.
- Professional references may be requested later in the selection process.
- Send all Applications to **Dr. Daniel Palmquist: daniel.palmquist@hy-set.com**

EQUAL EMPLOYMENT OPPORTUNITY

HY-SET LLC is an equal opportunity employer and evaluates qualified applicants without regard to race, color, religion, sex, national origin, age, disability, protected veteran status, genetic information, or any other characteristic protected by applicable law. Reasonable accommodations are available to qualified individuals with disabilities during the application and employment process.