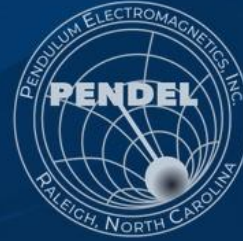


Pendulum Electromagnetics, Inc.



Capability Statement

www.pendel.com

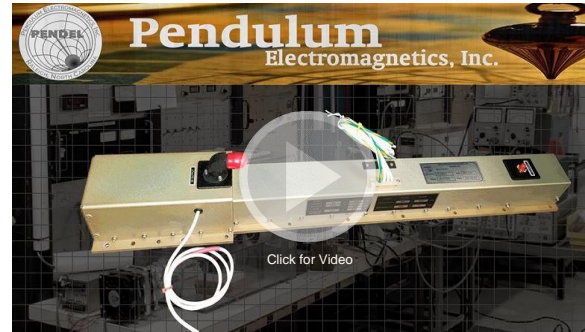
Pendulum Electromagnetics, Incorporated (PendEI) is a small, but technologically sophisticated operation in Raleigh, NC whose primary activity is the design, fabrication, and repair of vacuum electron devices (VEDs), with special expertise in high-power CW and pulse traveling wave tubes (TWT). Because the nature of these devices encompasses just about every facet of the physical sciences, PendEI is well-equipped to tackle any project where expertise in high vacuum, precision fabrication, furnace operations, RF induction, high voltage, electronics, and radio frequency technologies are critical to the effort.

Core Competencies

- **High Power CW and Pulse Traveling Wave Tubes:**
We have extensive experience in the design and fabrication of high power CW and pulse TWTs and offer a suite of unique PPM CW and Pulse L-Band devices.
- **High Perveance Electron Gun Design:**
We can design a wide range of high uP egun solutions ranging from a simple uP=1 Pierce diode to a uP=11 hollow beam device. We also offer a variety of gridded designs.
- **Vacuum Electron Device Repair:**
Our team has performed on a number of high profile TWT and klystron repair and refurbishment efforts effectively providing new tube performance and longevity at half the price.
- **Fabrication Technologies:**
We are experts at hydrogen and vacuum brazing, precision TIG and laser welding, fixture design, RF induction brazing, and high vacuum technology.
- **RF and Microwave Test and Measurement:**
Our test and measurement expertise is guided by decades of experience making high power measurements at RF and microwave frequencies.

Competitive Advantage

PendEI's chief competitive advantage is the cumulative and focused effect of multi-decade experience, flexibility, financial prudence (no debt), and commitment to near concierge-level customer service.



Company Snapshot

CAGE: 04CA6 **UEI:** G46RB4XHYP47

Govt. Business POC: John Gatsis

Phone: 919-247-0001

E-Mail: jgatsis@pendel.com

Address: 6304-D Westgate Road; Raleigh NC 27617

Work Area: Nationwide

Past Performance

PendEI has a 30-year history of delivering high quality and effective performance to myriad customers both domestic and international. Satisfied customers include U.S. Navy, Jefferson Lab (DoE), Applied Systems Engineering, Communications and Power Industries, Raytheon, Big Crow Program Office, and Teledyne Microwave Systems just to name a few.

Primary NAICS and PSC Codes

334419 – Traveling Wave Tube Manufacturing, Repair; Klystron Tube Manufacturing, Repair; Microwave Component Manufacturing; Electron Tube Parts, Sub-assemblies; Electron Gun Design; fabrication.

332811 – Furnace Brazing Operations; RF Induction Brazing, Heating.

5960 – Electron Tubes and Associated Hardware

J059 - Maint/Repair/Rebuild of Equipment - Electrical and Electronic Equipment Components.

John Gatsis
Government Business POC



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