

Mechanical Engineer

Location	Livermore, CA 94550 (on-site)
Employment	Full-time
Benefits	Medical, dental, and vision insurance; 401(k) with company match; life insurance; paid time off

BUILD THE NEXT GENERATION OF PRECISION INSTRUMENTS

This role offers something increasingly rare in engineering: ownership of a product across its full lifecycle. As the primary mechanical engineer for our King Nutronics line, you will take precision calibration instruments from concept through prototype, production release, and sustainment. You will make consequential technical decisions, work directly with customers, and see how your designs perform in demanding aerospace and defense environments.

Raptor Scientific designs and builds advanced RF measurement systems and precision pressure, temperature, torque, and force calibration instrumentation. Our Livermore operation is growing, creating room for engineers who want broader responsibility and the opportunity to grow with the business.

WHAT YOU WILL OWN

- **Take products from concept to production** — Lead mechanical design through prototype build, testing, production release, and long-term sustainment.
- **Design complete mechanical systems** — Develop components, assemblies, and pneumatic and hydraulic pressure-control systems, including tubing, manifolds, valves, regulators, and custom fixtures.
- **Engineer for demanding environments** — Design ruggedized systems for salt spray, vibration, shock, moisture, and temperature extremes in shipboard, submarine, hangar, and outdoor applications.
- **Improve manufacturability** — Reduce cost and complexity in a low-to-medium-volume environment without compromising performance or reliability.
- **Learn directly from customers** — Understand use cases and pain points firsthand, then translate them into better products and future capabilities.

WHAT YOU BRING

- **Education** — Bachelor's degree in Mechanical Engineering or a related field.
- **Relevant design experience** — Five or more years of hands-on mechanical design experience with precision instruments, sensors, or test and measurement equipment focused on pressure, temperature, torque, or force.
- **CAD and design fundamentals** — Strong 3D CAD skills; Inventor and/or SolidWorks are strongly preferred. Working knowledge of GD&T and tolerance analysis.
- **Pressure-control expertise** — Experience with pneumatic and hydraulic pressure and vacuum control systems.
- **Lifecycle execution** — Demonstrated experience carrying a design from concept through prototype and production release.
- **Hands-on capability** — The ability and willingness to build and test your own prototypes.

ADDITIONAL EXPERIENCE THAT WILL SET YOU APART

- **Quality environments** — Experience in ISO 9001, AS9100, or ISO/IEC 17025 quality environments.
- **Scripting** — Python or similar scripting skills used for test automation, data reduction, or workflow tools.
- **Rugged design standards** — Experience designing to MIL-STD-810 requirements, including vibration, shock, or salt spray.

- **Program background** — Prior aerospace or defense program experience.

HOW YOU WORK

Technical capability gets you into the conversation. How you approach the work determines whether you will thrive here.

- **Bias for action** — You make sound, calibrated decisions with incomplete information and keep the work moving.
- **Intellectual curiosity** — You work from first principles, ask why, and challenge assumptions when the evidence calls for it.
- **Clear communication** — You keep production, quality, sales, and product management informed, especially when risks or priorities change.
- **Drive to win** — You care about designs that ship, perform reliably in the field, and stand up over time.

APPLY

Send your resume to recruiting@raptor-scientific.com. If you want broad engineering ownership and the chance to build precision technology that must perform when it matters, we would like to hear from you.

Applicants must be authorized to work in the United States. To comply with U.S. Export Control Regulations, candidates must be eligible to receive any required authorization from the U.S. Government. Raptor Scientific is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to disability, veteran status, or any other characteristic protected by law.