

JOB DESCRIPTION: Mechanical Engineering Intern to full time pathway

Intern-to-Hire Pathway | Clean Energy & Defense Programs

Location: On-site, Livermore, CA (office / lab / shop + field)

About the Role

We are hiring Mechanical Engineering Interns on a paid intern-to-hire path. This is not a “fetch coffee and watch SolidWorks” internship. You design hardware, build it, test it to MIL-STD, and then take it into the field — including Alaska in winter and Death Valley in summer.

The role includes a defined probationary period. Conversion to full-time Mechanical Engineer follows successful performance, safety/quality discipline, and program demand.

We are a small team of hard-core engineers and scientists. That means an outsized role from week one, fast learning, and real ownership — not three layers of review before you touch a part. Recent graduates with co-op, shop-floor, or lab experience are strongly encouraged to apply.

Why This Is Different:

You help design new products, and then put them through MIL-STD testing and field trials.

Field work spans extremes: Arctic cold and Death Valley heat.

Mentorship from senior MEs and program leads who still design and test themselves.

Clear milestones. No mystery about what “good” looks like.

Conversion path to full-time Mechanical Engineer.

Mix of commercial clean-energy work and restricted defense programs.

Pathway to Full-Time Employment

Paid internship with a formal probation / evaluation period.

Mentorship from senior mechanical engineers and program leads.

Clear performance milestones: technical quality, safety, documentation, and teamwork.

Upon successful completion of probation, conversion to full-time Mechanical Engineer (pending program demand and demonstrated capability).

Increasing responsibility as clearance and project needs allow.

Compensation & Benefits

Paid internship, typically \$30–\$38/hour depending on degree and hands-on experience.

401(k) with company match, medical, dental, and vision. We also offer a discretionary cash bonus program.

Conversion target for full-time Mechanical Engineer is a competitive East Bay starting range, plus the benefits above.

What You Will Do

Support mechanical design of components, assemblies, fixtures, and test hardware using CAD (SolidWorks, Creo, or similar). Produce drawing packages manufacturing can use.

Perform first-pass analyses under supervision: hand calcs, FEA, thermal, and fluid estimates. Build, instrument, and test prototypes in the lab and shop; collect data and write test reports. Help design new products, then test them against MIL-STD.

Support field tests from Alaska in winter to Death Valley in summer.

Create and maintain drawings, BOMs, work instructions, and engineering change documentation. Participate in design reviews, DFMEA / PFMEA sessions, and root-cause investigations.

Work with manufacturing, suppliers, and technicians to resolve fit, form, and function issues. Support clean-energy hardware (thermal management, rotating equipment, pressure systems, structural packaging, hydrogen / fuel-cell related hardware) and selected defense mechanical systems.

Follow safety, quality, export-control, and ITAR / security procedures.

Required Qualifications

- B.S. or M.S. in Mechanical Engineering. **Recent graduates encouraged.**
- U.S. citizenship (required for defense program access).
- Hands-on experience from prior co-op, internship, research lab, or similar: machining, fabrication, assembly, instrumentation, or test.
- Proficiency with at least one major CAD tool and the ability to produce drawing packages that manufacturing can use.
- Working knowledge of statics, dynamics, strength of materials, heat transfer, fluids, and materials.
- Ability to work in a mixed commercial and defense environment, including controlled information handling.
- Strong written and verbal communication; comfort presenting data and design rationale.
- Willingness to work in lab, shop, and field environments with standard PPE. Field sites are not climate-controlled conference rooms.

Preferred Qualifications

- Multiple co-op rotations or a senior design / capstone project that went from concept to physical hardware.
- Experience with FEA (ANSYS, Nastran, Abaqus, or similar), MATLAB / Python for data reduction, and GD&T (ASME Y14.5).
- Familiarity with clean-energy hardware (heat exchangers, batteries/thermal systems, turbines, hydrogen, or power-electronics packaging) or defense mechanical systems.
- Shop skills: mill, lathe, CNC basics, welding awareness, 3D printing, metrology.
- Ability to obtain and maintain a U.S. security clearance if assigned to classified work.

Work Environment

On-site in Livermore. Time split among the office, lab, and shop, plus domestic travel for test campaigns. Some work is on U.S. Government and defense programs; U.S. citizenship is mandatory and export-control rules apply.

How to Apply

Submit a resume and a brief note describing your co-op or hands-on project experience (what you designed, built, tested, or fixed). Include CAD tools used and any test or manufacturing exposure. Recent graduates should list expected or actual graduation date.

About MöbiVolt

We are a hardcore engineering team attacking the power gap head-on. Two intern-to-hire Mechanical Engineering seats. If you want to design it, break it to MIL-STD, fix it, and take it to the field — apply. www.mobivolt.energy .