



Mechanical Development Intern – Summer 2024

Capwell Services Inc. – Houston, TX

About the Job

As a Mechanical Development Intern, you will work closely with the Capwell founding team to create tangible impacts on the Methane Abatement Unit's (MAU) technical advancement and commercialization. Opportunity to be formally credited in development of proprietary technology for exceptional performance in role.

Qualifications

- On track for a BS, MS, or Ph.D. in Mechanical Engineering
- Interest in sustainability and decarbonizing the oil and gas industry
- SolidWorks design experience
- Hands-on prototyping and mechanical design experience
- Exposure to formal design review process
- Demonstrated ability to defend design decisions with relevant theory or data
- Ability to communicate effectively within a small team

Typical Work

- Create and modify CAD models for a variety of vital subsystems
- Present prior research findings and conduct Preliminary Design Reviews for new systems
- Source and fabricate components for system testing
- Participate in the design of novel solutions to supplement core MAU
- Interface with vendors to ensure components meet safety and efficacy standards
- Post-process data and document test results from laboratory and field units

Helpful Skills

- Prior experience in academic research or design clubs
- Prior exposure to the oil and gas industry
- Experience with CFD software and familiarity with fluid dynamics

About Capwell

Capwell designs and produces immediate methane capture systems for end-of-life wells. OGCI states that "eliminating methane emissions from the oil & gas industry represents one of the best



opportunities for contributing to climate change mitigation and advancing the goals of the Paris agreement.” Capwell’s modular, easily transportable, and cost-effective systems can be deployed immediately upon leak detection and left on site until a permanent solution can be implemented. We are a small team where each individual’s contributions make a marked impact on the Methane Abatement Unit’s final form. We are looking for individuals who embrace a fast-paced, constantly evolving work environment while continuing to strive for traditional safety and performance standards. Now is a great time to join the Capwell team and begin contributing to a cleaner and safer future for the world.