



Job Posting:

Position Title: Mechanical Technician – Mobile 3D Concrete Printing Systems

Location: State College, PA

Reports To: VP of Engineering and Product

FLSA Status: Full-Time, Non-Exempt

Compensation:

- \$55K to \$70K+, commensurate with experience
- Health, dental, and vision insurance, matching 401K
- Paid time off

About X-Hab 3D

X-Hab 3D is redefining how the world builds. Traditional construction can't keep up — labor shortages, slow processes, and fragmented workflows are delaying projects and driving costs through the roof.

Our answer: automate construction. Our flagship product is a compact, mobile, semi-autonomous 3D concrete printing system that turns digital designs into full-scale structures directly on site — walls, buildings, infrastructure, even artificial reefs. No forms. No slabs required first. No waiting on someone else's schedule.

Engineered to meet the extreme requirements of the U.S. military, our system is built to thrive where other equipment fails — remote terrain, harsh climates, tight sites, and disaster zones. It's reliable, precise, and fast. Contractors get speed and cost efficiency. Developers get predictability. Communities get affordable, resilient structures.

With robotics, integrated software, and emerging low-carbon concrete alternatives, we're unlocking a new model of construction that scales — sustainably — from rural housing to urban redevelopment.

At X-Hab 3D, we're building a culture where initiative wins, ideas matter, and small teams do big things. We're looking for builders who punch above their weight, take ownership, and want to be part of creating something exceptional.

Position Summary

X-Hab 3D seeks a skilled Mechanical Technician with hands-on expertise in assembling and maintaining heavy equipment for 3D concrete printing and other construction applications. You'll

play a key role in building and supporting our mobile 3D concrete printing systems, working with components like continuous track systems, hydraulics, robotic arms, and electronics. This position offers an exciting opportunity to contribute to cutting-edge construction technology in a fast-paced and innovative environment.

Key Responsibilities

- Assemble mobile 3D concrete printing systems, including tank tracks, hydraulic systems, diesel generators, programmable robotic arms, and related components.
- Integrate electronics into mechanical assemblies.
- Use power tools (welding, drilling, cutting) for fabrication and assembly tasks.
- Read and interpret mechanical drawings and technical specifications for construction and troubleshoot
- Collaborate with engineers and production teams to ensure system assembly aligns with specifications and safety standards.
- Diagnose and repair mechanical and hydraulic systems as needed.
- Maintain high standards of quality and reliability in all builds.
- Follow safety protocols when working with heavy equipment and tools.

Qualifications

- Associate's degree (AA) in Mechanical Technology, Industrial Technology, or a related field.
- Minimum of 2 years of hands-on experience in assembling and maintaining heavy equipment.
- Strong knowledge of mechanical assembly, troubleshooting, and hydraulic systems.
- Experience in electronics assembly and mechanical integration is a plus.
- Skilled in using power tools, including welding, drilling, and cutting equipment.
- Reliable, detail-oriented, and able to work independently.
- Must have valid driver's license
- Must be authorized to work in the U.S.

How to Apply

Please submit the following to careers@xhab3d.com

- Resume
- Cover letter describing your background, including relevant hands-on experience, and why you are the right candidate