Mechanical Engineer

Would you like to join an awesome and quickly growing team that is deploying exciting agricultural technology across the USA?

About The Company:
- Rogo is an Ag-Tech company that helps farmers apply fertilizer more efficiently. To do that, we build and operate autonomous robots that have collected over 100K acres of soil samples within the past year.
- Meet our quickly growing team at https://www.rogoag.com/team that is headquartered in West Lafayette, IN.
- Our team respects each other deeply, while at the same debating ideas fiercely to get to the best solution. At Rogo, a growth mindset >> knowledge and real results >> effort.
- Join us on our path to improve both Precision Agriculture and the peoples’ lives we touch along the way (including our own team).

Job Description
Role:
- Goal: Improve robot’s durability, safety, efficiency, and usability with a variety of projects
- Identify problems, solve them, design solutions, build them, test them, repeat.
- Work independently but tackle big challenges with collaboration
- Convert projects into weekly goals and produce progress every week
- Mix of office research & design with hands-on build and testing.

Examples of Potential Projects:
- Lighter, more durable soil extraction arm
- Soil conveyance - comparing pneumatic vs mechanical & optimizing
- Lighter, faster packager gripper system
- Robot enclosure & weatherproofing
- Design for operator ergonomics
- New and custom soil sampling robot vehicle

Desired Profile
Minimum:
- Great communicator, problem definer and solver, core values fit
- Breakdown problems with physics, trig, calculus & algebra
- Test design & execution, sometimes in the outdoor elements
- Data analysis & presentation in a modern tool (excel, matlab, sheets etc)

Core Skills:
- Modeling: 3D CAD, 2D Fabrication drawings (with tolerancing)
- Layout/Machine Design: assemblies, interferences, configurations
- Wiring Design: routing, harness, termination, mounting
- Simulation: static and dynamic FEA analysis
Design for Mfg. & Maintenance: easy to build & maintain
Design for Ruggedization: vibration- & water/weather-proofing
Fabrication: Willing (if not able) to build things in the shop - welding, cutting, wrenching

Core Experience:
- Projects: Robotics/machine design, rugged design, vehicular design, packaging
- Systems: pneumatic, electrical/control, hydraulic systems, linear motion systems
- Materials: steel, aluminum, weldments, 3d-printed plastics

Bonus:
- Electrical Schematic Design, Low level programming (Ladder Logic, PID)

Start Date & Location
- Start in May 2020
- Willing to work in Wolcott, IN / Lafayette, Indiana area

Compensation / Benefits
- Full-Time Salary (based on market, experience, & skill)
- PTO - Flexible Vacation Plan (Self-managed as long as you get your work done)

Why apply?
- Work with exciting Ag-technology for a purpose.
- Work with an amazing, quickly growing team.
- Challenge yourself to grow in many different areas.

Interested? Please go here for the application form: https://www.rogoaq.com/join-our-team