

Senior Mechanical Engineer



Full job description

Redzone Robotics delivers high-performance pipeline inspection products and services for municipalities, contractors, and engineering firms across North America. We combine world-class robotic inspection technologies with sophisticated data analytics software to generate truly powerful and useful information that is required by municipalities worldwide to reduce spending and negative environmental impacts.

RedZone Robotics is seeking a Senior Mechanical Engineer for an exciting new program in wastewater system assessment. We are looking for a talented Mechanical Engineer who wants to make a significant impact in supporting, developing, and deploying bleeding-edge assessment technology. We are looking for a dynamic Mechanical Engineer who will be responsible for the design, implementation, and support of complex industrial electrical systems/robots.

The successful candidate will have a passion for delivering adaptive and creative solutions to industry-specific challenges by staying up to date with best practices and emerging trends in mechanical/electro-mechanical design. This individual will thrive in an environment that requires strong problem-solving skills and independent self-direction, coupled with an aptitude for team collaboration and open communication. The ideal candidate will be able to advocate for system improvements to company leadership and work closely with the Engineering teams to address issues before they reach our valued customers. They will also have experience in a fast-paced and innovative environment where needs and requirements can change rapidly.

Duties and Responsibilities include:

- Designing, maintaining, implementing, and improving mechanical components, equipment products, or systems for RedZone-specific applications.
- Performing a wide range of engineering tasks by operating computer-assisted design.
- Ensuring that installation and operations conform to standards and customer requirements by preparing mechanical system specifications, technical drawings, or system maps.
- Help to establish and implement standards and specifications.
- Maintaining mechanical equipment.
- Working with a variety of technicians on a day-to-day basis.

Skills and Competencies:

- Experience with designing robotic or electro-mechanical systems.
- Experience with Thermal and FEA simulation.
- Experience with Design for manufacturing / Assembly.
- Demonstrated creative and critical thinking capabilities.
- Knowledge of Product Life Cycle Management (PLM) systems and/or Product Data Management (PDM) systems is a plus.
- Knowledge of CAD or related software.
- Knowledge of computer simulation is a plus.
- Design for manufacturing (including but not limited to CNC, injection molding and 3D printing).
- Ability and willingness to provide support for legacy systems (50/50).
- Strong communication skills (written and verbal), ability to deliver message concisely and effectively.
- Strong propensity to listen and ask the right questions of customers and the organization.
- Ability to build and maintain interpersonal relationships, and influence at all levels of an organization. Developing constructive and cooperative working relationships with others and maintaining them over time. Proactively reach outside the primary area of responsibility to solve



conflicts or issues.

- Capability to partner with company's leaders to understand & drive overall cross-functional and business needs.
- Learn quickly, adapt easily to changing technology/circumstances, and apply change management skills appropriately.
- The ability to tell when something is wrong or is likely to go wrong. · Analyzing information and evaluating results to choose the best solution and solve problems.
- Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.
- Ability to thrive in a cross-functional agile team.
- Self-motivated and proactive.
- Demonstrated creative and critical thinking capabilities.

Education and Qualifications:

- Bachelor's degree, with a major in Mechanical Engineering or related field of study.
- 7+ years' experience or demonstrated expertise in the field.
- Design for Manufacturing, CAD, Material Science
- Ability to travel up to 10% or as needed.

EQUAL EMPLOYMENT OPPORTUNITY

It is the policy of RedZone Robotics, Inc. to provide equal employment and advancement opportunities to all individuals and to administer its personnel practices based on merit, qualifications, and abilities. RedZone will maintain an environment free of discrimination or harassment on the basis of actual or perceived race, color, national origin, religion, sex, sexual and reproductive health decision-making, age, actual or perceived physical or mental disability, genetic information, marital status, sexual orientation, gender (including gender identity or expression and/or the status of being transgender), military or veteran status, citizenship status, status as a victim of domestic violence, stalking, or sex offense, caregiver status, arrest or conviction record, credit history, unemployment status, or any other unlawful criterion or circumstance. RedZone prohibits and will not tolerate any such discrimination or harassment, or retaliation in response to good faith reports or the provision of information about such discrimination or harassment.

Job Type: Full-time

Benefits:

- 401(k)
- 401(k) matching
- Dental Insurance
- Employee assistance program
- Flexible schedule
- Health insurance
- Health savings account
- Life insurance
- Paid time off
- Professional development assistance
- Referral program
- Vision insurance

Schedule:

- 8-hour shift
- Day shift

Work Location: In person

