

Job Description: Mechanical Engineer

About Us:

Founded in mid-2022, Inspecity is building Earth 2.0 in near-earth space. In the near term, the engineers of Inspecity are creating a fleet of Vehicles for life-Extension and Deorbiting Activities (VEDA), equipped with Robotically Inserted Guidance systems (RIG) to cater to satellite- servicing, active debris removal, and satellite-deployment in all orbits. In the long term, the extensive fleet of RIG-equipped VEDAs will be leveraged to build innovative large-scale human habitats in space, free from the tyranny of solar-planetary environments. As a mechanical engineer, you will join our team of professionals who are passionate about designing and developing cutting-edge mechanical systems.

Position Overview:

We are seeking a highly skilled and motivated mechanical engineer to contribute to the design, development, and implementation of mechanical systems and components. The successful candidate will collaborate with a multidisciplinary team of engineers and technicians to ensure the successful execution of projects and meet expectations. This role offers an exciting opportunity to apply your expertise and advance your career in a challenging and rewarding environment.

Responsibilities:

1. Design and develop mechanical systems, components, and equipment based on project requirements, industry standards, and client specifications.
2. Conduct engineering calculations, simulations, and analyses to verify and validate the performance and functionality of mechanical designs.
3. Generate detailed engineering drawings, specifications, and documentation, ensuring compliance with relevant codes, standards, and regulations.
4. Collaborate with cross-functional teams to ensure seamless integration and functionality of mechanical systems.
5. Participate in design reviews, technical discussions, and project meetings, providing valuable insights and recommendations for improvement.
6. Perform feasibility studies, risk assessments to identify potential challenges and propose effective solutions.
7. Conduct testing and evaluation of prototypes and final products, identifying and troubleshooting any issues that arise during the development and manufacturing phases.
8. Monitor and oversee the manufacturing and assembly processes, ensuring adherence to design specifications and quality standards.
9. Stay up-to-date with industry trends, advancements, and emerging technologies in mechanical engineering, incorporating relevant knowledge into projects.

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Qualifications:

1. Bachelor's degree in Mechanical Engineering or a related field. Master's degree is a plus.
2. Proven experience as a mechanical engineer, with a track record of successful project completion.
3. Strong knowledge of mechanical engineering principles, theories, and practices, including thermodynamics, fluid mechanics, and materials science.
4. Proficiency in 3D CAD software (SolidWorks) and familiarity with engineering analysis tools (e.g., ANSYS, MATLAB).
5. Solid understanding of manufacturing processes, fabrication techniques, and materials selection.

How to Apply:

Send us your CV through the careers page on our website to apply for this position. Join our team and contribute your expertise to the advancement of innovative mechanical engineering solutions. Apply today and be part of our mission to deliver outstanding results to our clients while fostering your professional growth and development.