

Description	
Job Title	Senior Mechanical Developer
Reports to Title	Mechanical Engineering Manager
General Accountability	The Senior Mechanical Developer is responsible for the general mechanical design of mechanical aspects of the TULSA-PRO system and future products of the company.
Duties and Responsibilities	<p>Duties and responsibilities will include (but are not limited to):</p> <ol style="list-style-type: none"> 1. Analyze user needs and generate requirements for the company's products. 2. Create design specifications for the mechanical aspects of the company's products 3. Create aesthetic, functional, and reliable product designs 4. Review existing product design, identify weaknesses and propose improvements. 5. Analyze mechanical designs 6. Build early concepts of new designs and prototypes 7. Create strategy for the verification of the design, and participate in verification activities as required. 8. Produce DHF and DMR documentation for transfer to test/manufacturing. 9. Source parts and interact with suppliers as needed. 10. Support in-house production as needed. 11. Investigate problems seen in manufacturing and at clinical/customer sites, perform root cause analysis and propose remediation as needed. 12. Interact with customers, marketing, and sales as required to capture user needs and look for opportunities to improve products.

Competencies	
Education	Mechanical Engineering or similar undergraduate degree
Certifications	None
Key Attributes (experience, skills and technical knowledge)	<p>Required:</p> <ul style="list-style-type: none"> ▪ 8 years industrial experience with mechanical design in a regulated industry preferably in medical device industry. ▪ Demonstrated ability to translate user needs into design specifications ▪ Knowledge of electromechanical design ▪ Extensive knowledge of Solidworks ▪ Competency in mechanical analysis skills such as kinematics, solid and fluid dynamics, heat transfer, material strength ▪ Knowledge of finite-element analysis

	<ul style="list-style-type: none">▪ Mechanical aptitude including ability to use common shop tools and measurement equipment▪ Working knowledge of industrial design▪ Excellent drafter▪ In depth knowledge of manufacturing processes such as machining, injection molding, urethane casting.▪ Demonstrated ability to troubleshoot problems and perform root cause analysis▪ Excellent verbal and written skills.▪ Demonstrated ability to communicate with customers and with all employees of the company.▪ Tenacious problem solver, organized, detail oriented <p>Desirable:</p> <ul style="list-style-type: none">▪ Knowledge of medical device standards such as IEC-60601-1, ISO 10993▪ Knowledge of ASTM standards and testing methods▪ Experience working with mechatronics.
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