



## JOB DESCRIPTION

<b>JOB TITLE</b> Principal Engineer – Polymer Scientist	<b>JOB CODE</b>	<b>UPDATED</b> 9/09
<b>POSITION SUMMARY</b>		
<p>Technical leadership position supports the development of novel medical devices (implantable devices and sterile, disposable procedure systems) based upon EndoShape’s Shape Memory Polymer technology used in applications ranging from Women’s Health, Cardiovascular, GI, etc. This is an exciting opportunity with significant visibility in a young organization. Role as technical expert to lead and execute task assignments with a focus on material formulation with fillers and composites (to achieve unique properties), prototype and pre-production fabrication method development, including molding, extruding, forming, bonding, welding, etc. including hands-on assembly and testing coordinated with management in compliance with EndoShape’s Quality System. Role identifies and defines technology pipeline opportunities for the organization. Position requires resourcefulness, self-motivation, and excellent communication skills with a strong preference to previous medical device experience. Position reports to the COO; based in the Boulder office/lab.</p>		
<b>ESSENTIAL JOB FUNCTIONS</b>	<b>QUALIFICATIONS</b>	
<ul style="list-style-type: none"> <li>• Technical leadership in material science efforts to adapt licensed SMP materials to commercial fabrication methods for EndoShape’s development of novel implants and instrumentation devices.</li> <li>• Investigation and identification of further material technology improvements to achieve specific device functionality and process performance.</li> <li>• Polymer science and engineering design, product and process development activities, including:             <ul style="list-style-type: none"> <li>○ Materials investigation, sourcing and selection, synthesizing monomers where required</li> <li>○ Formulation and polymerization development, including fillers and composites</li> <li>○ Fabrication and assembly process development and integration</li> <li>○ Scientific review of test methods and results to refine material and design</li> <li>○ Support compilation of DMRs and DHRs</li> <li>○ Transition to production/assembly, A/R</li> </ul> </li> <li>• “Hands-on” lab efforts in development of new formulations and commercially viable assembly, inspection and evaluation methods</li> <li>• Concurrent process development with manufacturing engineers.</li> <li>• Support IP generation and documentation with emphasis on new material formulations, applying novel materials into commercially viable methods, and unique medical device designs.</li> <li>• Collaborate in design reviews and brainstorming/conceptualization sessions with other staff members.</li> <li>• Support coordination of activities with EndoShape’s vendors and subcontractors in support of achieving project goals</li> </ul>	<p><b>Education –</b> Advanced degree preferred in PolySci, MatSci, ChmE or related engineering discipline</p> <p><b>Experience –</b> (Compensation commensurate with experience) Multiple years in polymer materials, synthesis, polymerization, process development with emphasis on materials science. Experienced with commercial polymer fabrication processes (e.g. Extrusion and Injection Molding). Strong preference to prior experience with the manufacture of medical devices under FDA-QSR design controls. Preference to prior small company, “start-up” experience.</p> <p><b>Skills –</b> Energetic and Motivated - Works well in a fast paced, team environment. Flexible, can manage a variety of tasks and assignments. Excellent communication (written &amp; verbal) skills and team building. Quick learner and capable of being successful in achieving goals with limited supervision – resourceful and self directed. Proficient in MS Office (and Solidworks preferred).</p>	
	<b>PHYSICAL DEMANDS</b>	
	<p><b>Physical –</b> Position located at EndoShape’s Boulder office. Some assignments may collaborate with faculty and facilities that occur on campus at UC-Boulder, and UCHSC (Aurora) facilities.</p> <p><b>Manual Dexterity - typical</b></p>	
<b>APPROVED BY: J.C.</b>	<b>TITLE: COO</b>	<b>9.15.09</b>
<p>The above job description is intended to describe the general content, identify the essential functions of, and requirements for the performance of this job. It is not to be construed as an exhaustive statement of duties, responsibilities or requirements.</p>		