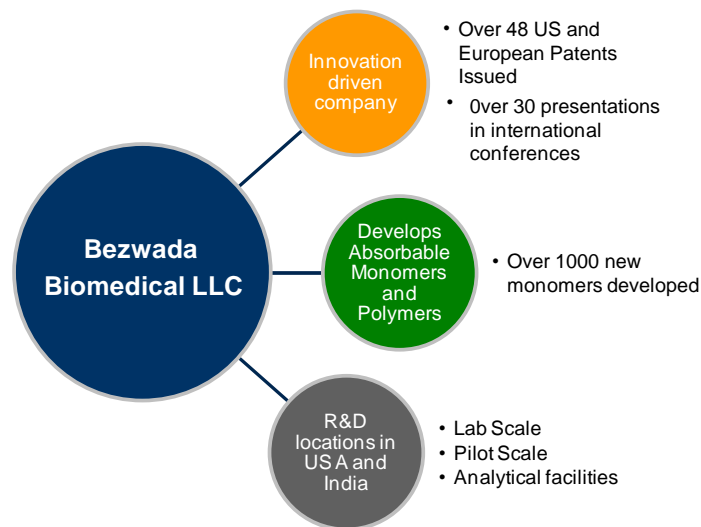


Bezwada Biomedical LLC is a privately held biomaterials company that develops, manufactures and markets innovative proprietary absorbable monomers and polymers for various biomedical applications. It was established in 2003 by Dr Rao S Bezwada, a leading expert on absorbable polymers, medical and drug delivery devices with more than 35 years of leadership and research experience in medical device industries including 20 years at Ethicon (a Johnson and Johnson company).



Bezwada Biomedical has state-of-the-art R&D facilities in USA and India. Furthermore, our team of over twenty qualified and skilled scientists constantly works with and for our customers to translate their demands into high quality products for a wide range of medical device and therapeutic applications in a cost effective manner.

Bezwada Biomedical is an innovation driven company with a strong technology and product portfolio comprising six platform technologies. Each of these technology platforms as shown below represents key enabling absorbable materials which can be used for developing controlled drug delivery devices. Some of our key featured products include absorbable polyurethanes, functionalized drugs and amino acid monomers which can be used to develop devices and formulations which provide controlled release of a variety of drugs. Infact Bezwada Biomedical was recently granted a patent entitled, "Functionalized Drugs and Polymers derived therefrom". *This patent represents a significant step and major technical achievement in creating new innovative ways for drug delivery.* This newly issued patent covers the functionalized drugs which can be used as monomers for preparation of absorbable therapeutic polymers which incorporate drug molecules either in the polymer backbone chain or as a pendant group. The technology covered in this patent prevents premature loss of efficacy of drug while eliminating the associated side effects. Furthermore, the rate of release of drug molecule can be controlled at the site of action leading to no-burst effects in delivery. Moreover, our absorbable polyurethanes were featured as biomaterial of the month by Society for Biomaterials for July 2010.

<p><b>Absorbable Polyurethanes</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Derived from hydrolytically degradable isocyanates</li> <li>• Tunable physical, mechanical properties and hydrolytic degradation profile</li> <li>• Releases safe and biocompatible molecules upon degradation</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Tissue Adhesive and Sealants, Wound healing, Tissue Engineering, Coatings, Drug delivery</li> </ul> </li> </ul>
<p><b>Absorbable Polymers from Functionalized Drugs</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Derived from drugs and safe and biocompatible molecules</li> <li>• Tunable hydrolytic degradation profile</li> <li>• Releases drug molecules such along with safe and biocompatible molecules upon degradation</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Controlled drug delivery, Pain management, Wound healing</li> </ul> </li> </ul>
<p><b>Anti-Microbial</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Based on functionalized Triclosan</li> <li>• Controllable release of Triclosan molecules along with safe and biocompatible molecules</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Anti-microbial coatings</li> <li>• Anti-microbial formulation</li> </ul> </li> </ul>
<p><b>NO releasing Drugs</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Drug molecules and NO releasing moiety attached via hydrolytically degradable linker</li> <li>• Controllable release profiles</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Treatment of Glaucoma, Osteoarthritis, Cardio-metabolic and inflammatory disorders</li> <li>• NO releasing coatings</li> </ul> </li> </ul>
<p><b>Absorbable Polymers from Functionalized Phenolics</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Derived from natural phenolic molecules such as flavonoids, chalcones and coumarins</li> <li>• Incorporates beneficial attributes of natural molecules in the polymer backbone</li> <li>• Tunable hydrolytic degradation profiles</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Drug delivery, cosmetics, radiation stable medical devices, anti-microbial coatings</li> </ul> </li> </ul>
<p><b>Absorbable Polymers from Functionalized Amino Acids</b></p>	<ul style="list-style-type: none"> <li>• <b>Key Attributes</b> <ul style="list-style-type: none"> <li>• Derived from amino acids functionalized with safe and biocompatible molecules</li> <li>• Tunable physical, mechanical properties and hydrolytic degradation profile</li> <li>• Releases safe and biocompatible molecules upon degradation</li> </ul> </li> <li>• <b>Applications</b> <ul style="list-style-type: none"> <li>• Drug Delivery, Stent and Stent Coatings, Scaffolds</li> </ul> </li> </ul>

In addition to our proprietary technologies and products we also offer to our customers the following



Please feel free to contact us to discuss your specific requirements. In case you need larger quantities or custom synthesis or you do not see an absorbable polymer that you need for your research, please contact us at 908-334-1575 or email us at [rao@bezwadabiomedical.com](mailto:rao@bezwadabiomedical.com).