



**Integral BioSystems, LLC**  
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## VITAL STATISTICS

**Year Founded:** 2009

**Number of Employees:** 11

**Approximate Annual Revenues:** \$2m-\$5m

**Key Personnel:** Shikha P. Barman, Ph.D.  
 Chief Executive Officer and Chief Technology Officer

Dave Karasic, Esq.  
 Chief Operating Officer and Legal Counsel

## WHO WE ARE

Integral BioSystems is a drug delivery CRO that offers an integrated, practical approach to formulation development projects for both small molecule and biologic actives. The company's expertise is focused on sustained release microsphere/nanosphere development, liposomes, nano/microsuspensions and lyophilized products for IM, SQ, ocular, otic, dermal and urologic applications.

The company's business approach is based on providing quality, top-notch formulation development services to start-ups, virtual, small companies to assist taking concepts from the bench-top to technology transfer to GMP facilities. Additionally, the company has solidified relationships with large generic companies both in the U.S. and internationally, to develop complex-to-formulate product pipelines.



## MAJOR MARKETS

Integral BioSystems is experienced working with all types of drug development entities in the US and around the world. Whether the client organization is a virtual business with no lab facilities of its own headed by a sole proprietor, an established pharmaceutical company with extensive development facilities and staff, or anything in between, Integral BioSystems can help to minimize development time to speed your drug to market.

## SERVICES OFFERED

Integral provides "soup-to-nuts" assistance in complex drug delivery projects, especially in product development of sustained release microspheres/nanospheres, depots, liposomes and cyclodextrin-based products. For all products, Integral adheres to QbD principles, required by the FDA for pharmaceutical products. Integral has developed relationships with GMP product manufacturers to tech-transfer its processes.

In addition to complete pharmaceutical formulation development project planning and execution, Integral BioSystems offers individual, rapid testing that includes NMR, UV-Vis, FTIR, microscopy, DSC-TGA, particle sizing, Log P, pH, SEM, XRPD, osmolality, Karl Fisher, volatiles by GC, and dose verification and viscometry. Additionally, Integral performs deformation of generics, permeability testing, dissolution studies, and stability testing of prototypes.

## WWW.INTEGRALBIOSYSTEMS.COM

