AVANOVA DYNAMICS



Build on Trust • Driven by innovation

3D CAD · FEA · ENGINEERING AND PROTOTYPING · MONITORING

+91 93879 84331

hannahgaile@hdcpexim.com

Info@avanovadynamics.com

www.avanovadynamics.com

Silpukhuri, Guwahati,Assam India



Discover the **Avanova Dynamics** difference. Pharmaceutical & Medical Device Design with CAD Modeling, Product Development & R&D Support.

PHARMACEUTICAL & MEDICAL DEVICE DESIGN



Pharmaceutical & Medical Device Design

Product Development & R&D Support for Pharmaceutical Companies — from concept through prototype and testing.

We also provide engineering design and research & development support for pharmaceutical and medical-device projects.

Through our collaboration with a pharmaceutical university and associated academic/research facilities in India, we can support companies interested in developing, testing, and validating new medical or pharmaceutical-related devices.

This collaboration provides access to specialized facilities and technical resources that can support projects beyond the initial engineering design stage.

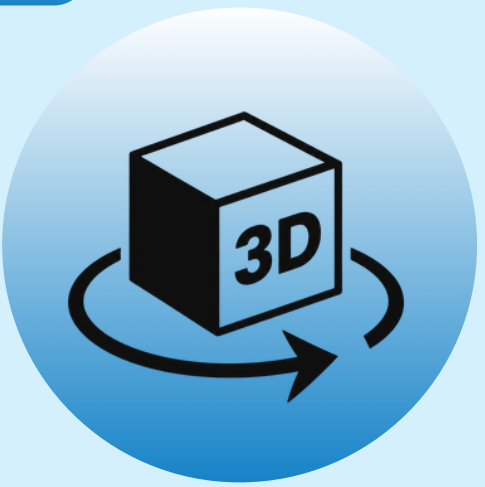
- **Medical device concept development**
- **Mechanical design of medical devices**
- **Product development**
- **3D CAD modeling**
- **Prototype development**
- **Engineering calculations**
- **Design verification support**
- **Product testing support**
- **Research & development projects**
- **Design improvements and optimization**
- **Technical documentation**

What We Can Support



Concept Development
Medical device concept development and initial design ideation.

3D CAD Modeling
Detailed 3D models for medical devices and components.





Prototype Development
Engineering support through to prototype fabrication.

Product Testing Support
Access to testing facilities through our university collaboration..



From Concept to Testing



For pharmaceutical companies, medical-device companies, researchers, and innovators, we help coordinate an engineering and R&D pathway:

Concept → Engineering Design → Prototype →
Testing → Validation → Further Development

Standards & Regulatory Alignment

Our medical-device engineering processes are structured in alignment with ISO 13485:2016 and applicable medical-device regulatory requirements.





- **ISO 13485:2016— Medical devices — Quality management systems — Requirements for regulatory purposes**
- **ISO 14971:2019— Medical devices — Application of risk management to medical devices**
- **ISO 10993 Series— Biological evaluation of medical devices**
- **ISO 14155:2026— Clinical investigation of medical devices for human subjects — Good clinical practice**
- **ISO/IEC 17025:2017— General requirements for the competence of testing and calibration laboratories**

University & Research Collaboration

Depending on the project requirements, our university collaboration can also provide access to facilities and technical support for applicable pre-clinical and clinical research activities in India, subject to the required regulatory approvals, ethics approvals, institutional requirements, and applicable Indian regulations.





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