



## Biophysics Research Outsourcing Services

Our biophysics research outsourcing services provide advanced experimental and computational solutions to analyze biomolecular structure, dynamics, and interactions at atomic to macromolecular scales for academia and industry.

### Our Biophysics Research Capabilities

With cutting-edge instrumentation including spectroscopy platforms, calorimeters, and molecular dynamics clusters, we deliver robust, reproducible data for complex biophysical phenomena.

### Types of Biophysics Research We Handle

- Protein Structure Determination
- DNA/RNA Folding Studies
- Molecular Dynamics Simulations
- Hydrogen-Deuterium Exchange Analysis
- Protein-Ligand Binding Thermodynamics
- Isothermal Titration Calorimetry
- Differential Scanning Calorimetry
- Surface Plasmon Resonance (SPR)
- Fluorescence Resonance Energy Transfer (FRET)
- Single-Molecule Force Spectroscopy
- Atomic Force Microscopy (AFM)
- Optical Tweezers Experiments
- Raman and FTIR Spectroscopy
- Circular Dichroism (CD) Spectroscopy
- NMR Spectroscopy for Biomolecules
- Electron Paramagnetic Resonance (EPR)
- Small Angle X-ray Scattering (SAXS)
- Electrophysiological Measurements
- Membrane Protein Biophysics
- Protein Folding Kinetics
- Enzyme Mechanism Studies
- Ion Channel Dynamics
- Virus Particle Biophysics
- Nanobiophysics of Biomaterials

- Mechanical Properties of Biomolecules
- Hydrodynamic and Rheological Analysis
- Computational Docking and Simulation
- Drug-Biomolecule Interaction Profiling
- Custom Biophysical Model Development
- Regulatory-Compliant Biophysics Data

## **Key Research Outsourcing Services Offered**

- Sample Preparation and Purification
- Protein Crystallization Trials
- CD, FTIR, and Raman Spectroscopy
- ITC and DSC Measurements
- SPR Binding Affinity Analysis
- FRET Assay Development
- AFM Imaging and Force Measurement
- Optical Tweezers Setup and Data
- NMR and EPR Spectral Analysis
- SAXS Data Collection and Modelling
- Electrophysiology Recording
- Ion Channel Activity Assays
- Hydrogen Exchange Mass Spec
- Protein-Ligand Kinetics Profiling
- Enzyme Mechanistic Assays
- Computational MD Simulation Runs
- Docking Studies and Binding Energy Calculation
- Hydrodynamics Modelling
- Mechanical Rheology of Biopolymers
- Nanobiophysics Characterization
- Bioinformatics for Biophysical Data
- Detailed Data Visualization
- Progress Reports and Milestones
- Publication-Ready Plots and Figures
- Confidential Data Management with NDA
- Quality Assurance and QA/QC Reports
- Regulatory Documentation Preparation
- Post-Project Consultation
- Training and Protocol Transfer
- Long-Term Collaboration Support

## **Why Choose Us for Biophysics Research Outsourcing?**

Our biophysics team combines high-end experimental platforms with rigorous computational modelling to deliver precise structural and functional insights for complex biomolecules.

## Industries & Sectors We Serve

- Biotechnology and Pharma R&D
- Academic Structural Biology Labs
- Drug Discovery and Development Companies
- Clinical Research Organizations
- Nanotechnology and Biomaterials Firms
- Government and Public Health Institutes

## Customized Biophysics Solutions

We tailor experimental protocols and simulation workflows to your biomolecule type, research objectives, and publication or regulatory requirements.

## Quality Assurance & Regulatory Compliance

Our QA/QC workflows follow ISO, GLP, and ICH guidelines, ensuring reproducible, validated results ready for audits and submissions.

## Case Studies & Client Success Stories

Learn how our biophysics support has enabled novel drug candidate validation, protein folding mechanism discovery, and next-gen biomaterial characterization. References available on request.

## How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define biomolecule, desired analysis, and study objectives.
2. **Proposal & Quotation:** Provide detailed plan, cost, and timeline breakdown.
3. **Lab Execution:** Perform experiments and computational modelling with robust QA/QC.
4. **Data Reporting:** Deliver raw data, processed results, and detailed interpretation.
5. **Post-Project Support:** Offer consulting, training, and data integration services.

## Frequently Asked Questions (FAQs)

**Q:** Can you handle protein complexes and membrane proteins?

**A:** Yes — we have expertise in challenging structural and functional studies.

**Q:** Do you perform custom simulation modelling?

**A:** Absolutely — we build custom MD and docking simulations tailored to your system.

**Q:** How secure is my structural data?

**A:** NDAs, secure servers, and access controls guarantee full data protection.

## **Get Started / Request a Quote**

Contact us today to discuss your biophysics research needs and get a customized plan and cost estimate.

## **Contact Us**

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