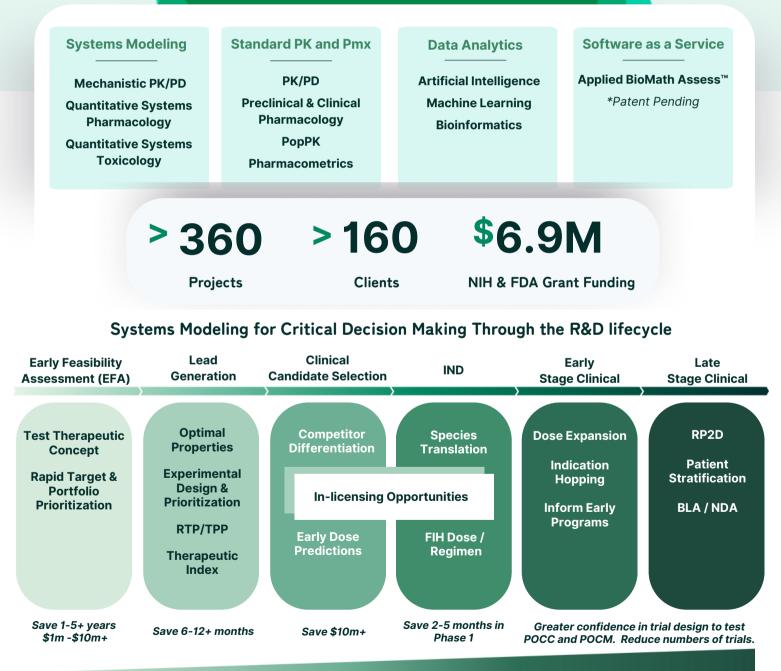


applied biomath[®]

Corporate Fact Sheet

Applied BioMath is a model informed drug discovery and development (MID3) services, software, and R&D company



Increasing Model Confidence and Complexity. The Right Model at the Right Time

Breadth of Experience

Our interdisciplinary team has a breadth of pharma and biotech experience

Applied Mathematics • Biochemistry • Biomedical Engineering • Biology Biological Engineering • Chemical Engineering • Computational Biology Electrical Engineering • Physics • Pharmacokinetics



Our expertise spans many therapeutic areas and modalities

Therapeutic Areas CNS/ Alzheimer's Disease Oncology Immuno-oncology Metabolic Inflammation & Immunology • Pain Infectious Disease Rare and Orphan Ocular Disease Respiratory/ Cardiovascular **Modalities Protein Therapies Small Molecules** • Irreversible binders RNAi Traditional mAbs • Prodrugs CRISPR/Cas9 Antibody-drug Conjugates Protein Degraders

- Kinase Inhibitor
- Other Small Molecules

Cell & Gene Therapies

- Engineered Message
- CAR-T
- Sickle Cell Disease
- Delivery Mechanisms
- Lipid Nanoparticles • Oncolytic Viruses • **AAV**
- Other Cell Therapies
- Other Gene Therapies
- Other Delivery Mechanisms

- Bispecific Antibodies
- Multi-targeting Biologics
- Peptides
- Fusion Proteins
- Conditionally Active Biologics
- NK Cell Engagers
- T Cell Engagers
- Immunocytokines
- Other Protein Therapies

Services

Our services span throughout the entire drug R&D continuum

Modeling & Simulation	 Mechanistic/Translational PK/PD Quantitative Systems Pharmacology Quantitative Systems Toxicology Platform/Disease Models PK/PD 	 PBPK PopPK Exposure Response Modeling Clinical Trial Simulations Model-based Meta Analysis
Clinical Pharmacology	 Non-compartmental Analyses Regulatory Support Clinical Trial Design Pediatric Development Plans Clinical Pharmacology Plans and Gap A 	Analysis
Network & Data-Driven Approaches	 Bioinformatics Artificial Intelligence/Machine Learning Biomarker Analysis Pathway Analysis Target Identification 	g

We support cutting-edge therapies with a variety of clients*

- AbbVie
- Alexion Pharmaceuticals
- Antengene
- Asher Biotherapeutics
- Astellas
- Biogen
- BYOMass
- Celsius Therapeutics
- Centivax
- Checkpoint Therapeutics

- Codiak BioSciences
- Compass Therapeutics
- CSL Behring
- Cullinan Oncology
- CytomX Therapeutics
- Flame Biosciences
- Genmab
- Gritstone Oncology
- Ichnos Sciences
- Immunitas Therapeutics

- Ironwood Pharmaceuticals
- KSQ Therapeutics
- Monte Rosa Therapeutics
- Northern Biologics
- Novartis
- Obsidian Therapeutics
- OncoMyx Therapeutics
- Pfizer
- Revitope Oncology
- Sanofi

- Shire
- Syntimmune
- Takeda
- Tusk
- Verseau Therapeutics
- Xencor
- Xilio Therapeutics
- Zymeworks

*This is a partial list. Not all of our clients are in the public domain.

Value of Applied BioMath Technology

Increased quality:

- Libraries of verified and validated models and workflows provide high quality starting points
- Verification and validation processes enable end-to-end testing
- Built in QC processes add an additional layer of quality
- · All assets are text based and version tracked for full traceability
- ISO-27009, SOC2, GDPR compliance for security and reliability





Faster turnaround time:

- Libraries of verified and validated models and workflows accelerate project starts and timelines
- Low latency HPC saves human time with faster implement, test, and debug cycles
- Fast algorithms optimized for QSP models speed analysis (stiff, optimization, GSA, VPoP, etc.)

Interrogate the science more deeply:

- Fast algorithms optimized for QSP models to try more variations and cases to delve deeper into the problem
- Proprietary Full Text Search Algorithms allow us to dig deeper into the literature to find data and parameters

100x or more increase sampling





Increased transparency and knowledge transfer:

- Human readable models and workflows with integrated documentation, and visualizations support better collaboration
- Models can be deployed into Applied BioMath Assess™ for later use
- Opportunities for close collaborators to access Applied QSP
 Notebook directly and access full compute environment
- Models easily exported into other languages (eg *.m ode-files, *.sbml simbiology-files)

Product Portfolio:

Applied BioMath Assess™

Assess efficacy, safety, and therapeutic index for early stage biotherapeutics.

QSPedia[™] (Beta release)

Scientifically designed NLP query tool to automate QSP model parameter identification.

QSP Notebook (Select customers only)

Python-based, HPC-backed QSP Modeling platform.