

Mathematical Modelling Internship Topics

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50
Active Categories

10
Focused Areas

Internships
Internships

Mathematical Modelling Internship Categories

AI Epidemiological Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-epidemiological-modelling-research	Machine Learning Climate Mathematical Model Research https://internships.nthrys.com/mathematical-modelling/machine-learning-climate-mathematical-model
AI Biological System Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-biological-system-modelling-research	AI Financial Mathematical Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-financial-mathematical-modelling-research
AI Agent-Based Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-agent-based-modelling-research	AI Network Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-network-modelling-research
AI Multiscale Mathematical Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-multiscale-mathematical-modelling-research	AI Stochastic Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-stochastic-modelling-research
AI Optimal Control Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-optimal-control-modelling-research	AI Physics-Informed Neural Modelling Research https://internships.nthrys.com/mathematical-modelling/ai-physics-informed-neural-modelling-research
Nonlinear Dynamical Systems Analysis Research https://internships.nthrys.com/mathematical-modelling/nonlinear-dynamical-systems-analysis-research	Computational Fluid Dynamics Modelling https://internships.nthrys.com/mathematical-modelling/computational-fluid-dynamics-modelling
Partial Differential Equations Solver Research https://internships.nthrys.com/mathematical-modelling/partial-differential-equations-solver-research	Spatial-Temporal Pattern Formation Modelling https://internships.nthrys.com/mathematical-modelling/spatial-temporal-pattern-formation-modelling
Population Dynamics and Evolutionary Modelling https://internships.nthrys.com/mathematical-modelling/population-dynamics-evolutionary-modelling	Optimization Algorithm Development Research https://internships.nthrys.com/mathematical-modelling/optimization-algorithm-development-research
Supply Chain Logistics Modelling https://internships.nthrys.com/mathematical-modelling/supply-chain-logistics-modelling	Traffic Flow and Transportation Modelling https://internships.nthrys.com/mathematical-modelling/traffic-flow-transportation-modelling
Epidemic Model Parameter Estimation https://internships.nthrys.com/mathematical-modelling/epidemic-model-parameter-estimation	Quantum Computing Algorithm Modelling https://internships.nthrys.com/mathematical-modelling/quantum-computing-algorithm-modelling
Materials Science Phase Field Modelling https://internships.nthrys.com/mathematical-modelling/materials-science-phase-field-modelling	Uncertainty Quantification in Models https://internships.nthrys.com/mathematical-modelling/uncertainty-quantification-in-models
Graph Theory Network Analysis Research https://internships.nthrys.com/mathematical-modelling/graph-theory-network-analysis-research	Biomechanics and Movement Modelling https://internships.nthrys.com/mathematical-modelling/biomechanics-movement-modelling
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Tumor Growth and Cancer Modelling https://internships.nthrys.com/mathematical-modelling/tumor-growth-cancer-modelling	Continuum Mechanics Modelling Applications https://internships.nthrys.com/mathematical-modelling/continuum-mechanics-modelling-applications
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Chemical Reaction Network Modelling https://internships.nthrys.com/mathematical-modelling/chemical-reaction-network-modelling	Machine Vision and Image Processing Models https://internships.nthrys.com/mathematical-modelling/machine-vision-image-processing-models

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Manufacturing Process Control Modelling https://internships.nthrys.com/mathematical-modelling/manufacturing-process-control-modelling	Neuron Firing and Brain Dynamics Modelling https://internships.nthrys.com/mathematical-modelling/neuron-firing-brain-dynamics-modelling
Climate Extreme Events Probability Modelling https://internships.nthrys.com/mathematical-modelling/climate-extreme-events-probability-modelling	Vaccine Distribution and Equity Optimization https://internships.nthrys.com/mathematical-modelling/vaccine-distribution-equity-optimization
Coral Reef Ecosystem Dynamics Modelling https://internships.nthrys.com/mathematical-modelling/coral-reef-ecosystem-dynamics-modelling	Urban Heat Island Effect Mitigation Modelling https://internships.nthrys.com/mathematical-modelling/urban-heat-island-effect-mitigation-modelling

Mathematical Modelling Internship Topics and Focused Areas

AI Biological System Modelling Research

- Protein Folding Prediction Using Deep Learning
- Systems Biology Network Analysis
- Pharmacokinetic and Pharmacodynamic Modeling
- Computational Neuroscience and Neural Circuit Modeling
- Tumor Growth and Cancer Progression Modeling

Neuron Firing and Brain Dynamics Modelling

- Hodgkin-Huxley Model Implementation and Parameter Optimization
- Neural Network Synchronization and Coupled Oscillator Dynamics
- Stochastic Neuron Models and Noise Effects on Spike Timing
- Bifurcation Analysis and Neuronal Excitability Transitions
- Multi-scale Brain Dynamics: From Single Neurons to Population-Level Activity

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