

Applied Immunology Internship Topics

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50
Active Categories

15
Focused Areas

Internships
Internships

Applied Immunology Internship Categories

AI Therapeutic Immunology Target Research https://internships.nthrys.com/applied-immunology/ai-therapeutic-immunology-target-research	Machine Learning for Immune Cell Function Studies https://internships.nthrys.com/applied-immunology/machine-learning-immune-cell-function-studies
AI Autoimmune Disease Applied Immunology Research https://internships.nthrys.com/applied-immunology/ai-autoimmune-disease-applied-immunology	Transplant Immunology & Tolerance Research https://internships.nthrys.com/applied-immunology/transplant-immunology-tolerance-research
AI Allergy & Hypersensitivity Mechanism Research https://internships.nthrys.com/applied-immunology/ai-allergy-hypersensitivity-mechanism-research	AI Infection & Immune Response Research https://internships.nthrys.com/applied-immunology/ai-infection-immune-response-research
AI Mucosal Immunology Application Research https://internships.nthrys.com/applied-immunology/ai-mucosal-immunology-application-research	Tumor Immunology Applied Research https://internships.nthrys.com/applied-immunology/tumor-immunology-applied-research
AI Immune Senescence & Aging Research https://internships.nthrys.com/applied-immunology/ai-immune-senescence-aging-research	Neuroimmunology Applied Research https://internships.nthrys.com/applied-immunology/neuroimmunology-applied-research
Immunoglobulin Engineering & Antibody Design https://internships.nthrys.com/applied-immunology/immunoglobulin-engineering-antibody-design	Cytokine Signaling Pathway Modulation Studies https://internships.nthrys.com/applied-immunology/cytokine-signaling-pathway-modulation
T Cell Receptor Engineering Applications https://internships.nthrys.com/applied-immunology/t-cell-receptor-engineering-applications	Complement System Activation & Regulation https://internships.nthrys.com/applied-immunology/complement-system-activation-regulation
Dendritic Cell-Based Vaccine Development https://internships.nthrys.com/applied-immunology/dendritic-cell-based-vaccine-development	Immune Checkpoint Inhibitor Response Prediction https://internships.nthrys.com/applied-immunology/immune-checkpoint-inhibitor-response-prediction
B Cell Differentiation & Memory Formation https://internships.nthrys.com/applied-immunology/b-cell-differentiation-memory-formation	Innate Lymphoid Cell Function Research https://internships.nthrys.com/applied-immunology/innate-lymphoid-cell-function-research
Microbiome-Immune System Interaction Studies https://internships.nthrys.com/applied-immunology/microbiome-immune-system-interaction	Immunometabolism & Immune Cell Energy Dynamics https://internships.nthrys.com/applied-immunology/immunometabolism-immune-cell-energy
Pathogen-Associated Molecular Pattern Detection https://internships.nthrys.com/applied-immunology/pathogen-associated-molecular-pattern-detection	Regulatory T Cell Expansion & Stability https://internships.nthrys.com/applied-immunology/regulatory-t-cell-expansion-stability
Immune Tolerance Mechanisms in Transplantation https://internships.nthrys.com/applied-immunology/immune-tolerance-transplantation-mechanisms	Viral Vector Immunogenicity Characterization https://internships.nthrys.com/applied-immunology/viral-vector-immunogenicity-characterization
Tissue-Resident Memory T Cell Studies https://internships.nthrys.com/applied-immunology/tissue-resident-memory-t-cell-studies	Immune-Oncology Biomarker Development Research https://internships.nthrys.com/applied-immunology/immune-oncology-biomarker-development
Conjugate Vaccine Development & Optimization https://internships.nthrys.com/applied-immunology/conjugate-vaccine-development-optimization	Natural Killer Cell Receptor Signaling Analysis https://internships.nthrys.com/applied-immunology/natural-killer-cell-receptor-signaling
Immunotoxicology & Safety Assessment Studies https://internships.nthrys.com/applied-immunology/immunotoxicology-safety-assessment	Myeloid-Derived Suppressor Cell Characterization https://internships.nthrys.com/applied-immunology/myeloid-derived-suppressor-cell-characterization
Epitope Mapping & Immunogenic Peptide Discovery https://internships.nthrys.com/applied-immunology/epitope-mapping-immunogenic-peptide-discovery	Fc Receptor Signaling & Effector Functions https://internships.nthrys.com/applied-immunology/fc-receptor-signaling-effector-functions

Immune Response to Biomaterial Implants https://internships.nthrys.com/applied-immunology/immune-response-biomaterial-implants	Therapeutic Monoclonal Antibody Characterization https://internships.nthrys.com/applied-immunology/therapeutic-monoclonal-antibody-characterization
Immune Profiling in Disease Progression Studies https://internships.nthrys.com/applied-immunology/immune-profiling-disease-progression	Bacterial Lipopolysaccharide Response Studies https://internships.nthrys.com/applied-immunology/bacterial-lipopolysaccharide-response-studies
Viral Escape Mechanism & Immune Evasion https://internships.nthrys.com/applied-immunology/viral-escape-immune-evasion-mechanisms	Immunoglobulin A Production & Secretion Research https://internships.nthrys.com/applied-immunology/immunoglobulin-a-production-secretion
Immunogenicity Testing of Biologics https://internships.nthrys.com/applied-immunology/immunogenicity-testing-biologics	Interferon Response & Antiviral Immunity Studies https://internships.nthrys.com/applied-immunology/interferon-response-antiviral-immunity
Immune System Reconstitution Post-Transplant https://internships.nthrys.com/applied-immunology/immune-reconstitution-post-transplant	Toll-Like Receptor Ligand Development https://internships.nthrys.com/applied-immunology/toll-like-receptor-ligand-development
Immune Response to Parasitic Infections https://internships.nthrys.com/applied-immunology/immune-response-parasitic-infections	Immunoproteasome Function & Peptide Processing https://internships.nthrys.com/applied-immunology/immunoproteasome-function-peptide-processing
Neutrophil Extracellular Trap Formation Studies https://internships.nthrys.com/applied-immunology/neutrophil-extracellular-trap-formation	Immunological Tolerance Induction Strategies https://internships.nthrys.com/applied-immunology/immunological-tolerance-induction-strategies
Immune Response Profiling in Clinical Trials https://internships.nthrys.com/applied-immunology/immune-response-profiling-clinical-trials	Hypersensitivity Reaction Mechanism Characterization https://internships.nthrys.com/applied-immunology/hypersensitivity-reaction-mechanism-characterization
Immunological Memory Durability Assessment https://internships.nthrys.com/applied-immunology/immunological-memory-durability-assessment	Stromal Cell-Immune Cell Cross-Talk Research https://internships.nthrys.com/applied-immunology/stromal-cell-immune-cell-cross-talk

Applied Immunology Internship Topics and Focused Areas

AI Infection & Immune Response Research

- Machine Learning Models for Pathogen Detection
- Predictive Analysis of Immune Response Kinetics
- Epitope Mapping and Vaccine Design Optimization
- Deep Learning for Immune Cell Classification
- Natural Language Processing for Immunological Literature Mining

Immunometabolism & Immune Cell Energy Dynamics

- Metabolic Profiling of T Cell Activation States
- Lipid Metabolism and Immune Cell Differentiation
- mTOR Signaling in Immune Homeostasis and Dysfunction
- Glycolysis and Inflammatory Response Mechanisms
- Nutrient Sensing and Immune Tolerance in Tumor Microenvironments

Immunogenicity Testing of Biologics

- In Vitro T-Cell Activation and Proliferation Assays
- Antibody Response Characterization and Epitope Mapping
- Complement Activation and Cell-Based Cytotoxicity Models
- Immunoinformatics Prediction of Immunogenic Epitopes
- Pre-Clinical to Clinical Immunogenicity Correlation Studies

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