

Pathology Internship Topics

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Active Categories

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Focused Areas

Internships
Internships

Pathology Internship Categories

AI Digital Pathology Research https://internships.nthrys.com/pathology/ai-digital-pathology-research	Machine Learning Histopathology Research https://internships.nthrys.com/pathology/machine-learning-histopathology-research
AI Computational Pathology Research https://internships.nthrys.com/pathology/ai-computational-pathology-research	AI Tumor Microenvironment Pathology Research https://internships.nthrys.com/pathology/ai-tumor-microenvironment-pathology-research
AI Molecular Pathology Integration Research https://internships.nthrys.com/pathology/ai-molecular-pathology-integration-research	AI Liquid Biopsy Pathology Research https://internships.nthrys.com/pathology/ai-liquid-biopsy-pathology-res
AI Neuropathology Research https://internships.nthrys.com/pathology/ai-neuropathology-research	AI Forensic Pathology Research https://internships.nthrys.com/pathology/ai-forensic-pathology-research
AI Infectious Disease Pathology Research https://internships.nthrys.com/pathology/ai-infectious-disease-pathology-res	AI Precision Pathology Research https://internships.nthrys.com/pathology/ai-precision-pathology-research
Immunohistochemistry Biomarker Discovery Research https://internships.nthrys.com/pathology/immunohistochemistry-biomarker-discovery-research	Fluorescence In Situ Hybridization Analysis https://internships.nthrys.com/pathology/fluorescence-in-situ-hybridization-analysis
Electron Microscopy Ultrastructural Pathology https://internships.nthrys.com/pathology/electron-microscopy-ultrastructural-pathology	Renal Pathology Research and Classification https://internships.nthrys.com/pathology/renal-pathology-research-and-classification
Cardiac Pathology and Myocardial Analysis https://internships.nthrys.com/pathology/cardiac-pathology-and-myocardial-analysis	Gastrointestinal Dysplasia Grading Research https://internships.nthrys.com/pathology/gastrointestinal-dysplasia-grading-research
Gynecological Cytopathology Screening Research https://internships.nthrys.com/pathology/gynecological-cytopathology-screening-research	Thyroid Fine Needle Aspiration Cytology https://internships.nthrys.com/pathology/thyroid-fine-needle-aspiration-cytology
Bone Marrow Morphology and Hematologic Disorders https://internships.nthrys.com/pathology/bone-marrow-morphology-and-hematologic-disorders	Lymphoma Classification and Immunophenotyping https://internships.nthrys.com/pathology/lymphoma-classification-and-immunophenotyping
Cutaneous Pathology Dermatopathology Research https://internships.nthrys.com/pathology/cutaneous-pathology-dermatopathology-research	Pulmonary Fibrosis Histological Pattern Analysis https://internships.nthrys.com/pathology/pulmonary-fibrosis-histological-pattern-analysis
Liver Cirrhosis and Fibrosis Staging Research https://internships.nthrys.com/pathology/liver-cirrhosis-and-fibrosis-staging-research	Prostate Cancer Gleason Scoring Research https://internships.nthrys.com/pathology/prostate-cancer-gleason-scoring-research
Breast Cancer Histological Subtyping https://internships.nthrys.com/pathology/breast-cancer-histological-subtyping	Gene Expression Profiling and Microarray Analysis https://internships.nthrys.com/pathology/gene-expression-profiling-and-microarray-analysis
Next Generation Sequencing Pathology Application https://internships.nthrys.com/pathology/next-generation-sequencing-pathology-application	Immunophenotype Flow Cytometry Research https://internships.nthrys.com/pathology/immunophenotype-flow-cytometry-research
Tissue Microarray Development and Analysis https://internships.nthrys.com/pathology/tissue-microarray-development-and-analysis	Quantitative Image Analysis and Morphometry https://internships.nthrys.com/pathology/quantitative-image-analysis-and-morphometry
Autopsy and Medical Examiner Pathology https://internships.nthrys.com/pathology/autopsy-and-medical-examiner-pathology	Environmental and Occupational Pathology Research https://internships.nthrys.com/pathology/environmental-and-occupational-pathology-research

Plant Pathology and Agricultural Disease Research https://internships.nthrys.com/pathology/plant-pathology-and-agricultural-disease-research	Veterinary Pathology Tissue Analysis https://internships.nthrys.com/pathology/veterinary-pathology-tissue-analysis
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Specimen Handling and Biorepository Management https://internships.nthrys.com/pathology/specimen-handling-and-biorepository-management	RNA In Situ Hybridization Localization Studies https://internships.nthrys.com/pathology/rna-in-situ-hybridization-localization-studies
Mass Spectrometry Imaging Proteomics Research https://internships.nthrys.com/pathology/mass-spectrometry-imaging-proteomics-research	Multiplex Immunoassay Tissue Analysis https://internships.nthrys.com/pathology/multiplex-immunoassay-tissue-analysis
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Solid Tumor Molecular Profiling Studies https://internships.nthrys.com/pathology/solid-tumor-molecular-profiling-studies	Tissue Staining Optimization and QA Research https://internships.nthrys.com/pathology/tissue-staining-optimization-and-qa-research
Cytogenetics and Chromosomal Aberration Analysis https://internships.nthrys.com/pathology/cytogenetics-and-chromosomal-aberration-analysis	Spatial Transcriptomics Tissue Mapping https://internships.nthrys.com/pathology/spatial-transcriptomics-tissue-mapping
Artifact Recognition and Tissue Quality Assessment https://internships.nthrys.com/pathology/artifact-recognition-and-tissue-quality-assessment	Chromogenic and Fluorescent Substrate Development https://internships.nthrys.com/pathology/chromogenic-and-fluorescent-substrate-development
Three Dimensional Tissue Reconstruction Imaging https://internships.nthrys.com/pathology/three-dimensional-tissue-reconstruction-imaging	Organ-Specific Pathology Quality Benchmarking https://internships.nthrys.com/pathology/organ-specific-pathology-quality-benchmarking

Pathology Internship Topics and Focused Areas

AI Infectious Disease Pathology Research

- Deep Learning Model Development for Pathogen Detection
- Genomic Analysis and Virulence Factor Identification
- Morphological Feature Extraction in Digital Pathology
- Tissue Culture and Immunohistochemistry Methodology
- Clinical Data Mining and Epidemiological Pattern Analysis

Cutaneous Pathology Dermatopathology Research

- Melanoma Histopathology and Molecular Profiling
- Inflammatory and Autoimmune Skin Disease Characterization
- Digital Pathology and Image Analysis in Dermatology
- Infectious and Parasitic Skin Disease Diagnosis
- Neoplastic Skin Lesions and Tumor Microenvironment Analysis

Prostate Cancer Gleason Scoring Research

- Digital Pathology Image Analysis for Gleason Grading
- Histopathological Specimen Preparation and Microscopic Evaluation
- Gleason Score Prognostic Correlation Studies
- Inter-observer Variability and Quality Assurance in Gleason Scoring
- Biomarker Integration with Gleason Grading for Risk Stratification

Breast Cancer Histological Subtyping

- Invasive Carcinoma Subtype Classification
- Immunohistochemical Profiling and Molecular Markers
- Special Histological Types and Rare Variants
- Grading Systems and Tumor Assessment
- Digital Pathology and Image Analysis in Subtyping

RNA In Situ Hybridization Localization Studies

- Probe Design and Validation for mRNA Detection
- Tissue Sample Preparation and Optimization
- Fluorescent Signal Detection and Image Analysis
- Disease-Specific mRNA Localization Patterns
- Multiplexing and Co-localization Studies

Cytogenetics and Chromosomal Aberration Analysis

- Fluorescence In Situ Hybridization (FISH) Protocol Development
- Karyotyping and Metaphase Analysis
- Array Comparative Genomic Hybridization (aCGH) Data Interpretation
- Next-Generation Sequencing (NGS) for Chromosomal Rearrangement Detection
- Clinical Correlation and Cytogenetic Report Writing

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