

# Epigenomics Internship Topics

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**50**  
Active Categories

**5**  
Focused Areas

**Internships**  
Internships

## Epigenomics Internship Categories

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| <b>AI DNA Methylation Landscape Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-dna-methylation-landscape-research">https://internships.nthrys.com/epigenomics/ai-dna-methylation-landscape-research</a>                | <b>Machine Learning Chromatin State Research</b><br><a href="https://internships.nthrys.com/epigenomics/machine-learning-chromatin-state-research">https://internships.nthrys.com/epigenomics/machine-learning-chromatin-state-research</a>       |
| <b>AI Histone Modification Profiling Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-histone-modification-profiling-research">https://internships.nthrys.com/epigenomics/ai-histone-modification-profiling-research</a> | <b>AI Epigenome Editing Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-epigenome-editing-research">https://internships.nthrys.com/epigenomics/ai-epigenome-editing-research</a>                                           |
| <b>AI 3D Chromatin Organization Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-3d-chromatin-organization-research">https://internships.nthrys.com/epigenomics/ai-3d-chromatin-organization-research</a>                | <b>AI Cancer Epigenomics Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-cancer-epigenomics-research">https://internships.nthrys.com/epigenomics/ai-cancer-epigenomics-research</a>                                        |
| <b>AI Developmental Epigenomics Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-developmental-epigenomics-research">https://internships.nthrys.com/epigenomics/ai-developmental-epigenomics-research</a>                | <b>AI Environmental Epigenomics Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-environmental-epigenomics-research">https://internships.nthrys.com/epigenomics/ai-environmental-epigenomics-research</a>                   |
| <b>AI Single-Cell Epigenomics Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-single-cell-epigenomics-res">https://internships.nthrys.com/epigenomics/ai-single-cell-epigenomics-res</a>                                | <b>AI Epigenetic Clock &amp; Aging Research</b><br><a href="https://internships.nthrys.com/epigenomics/ai-epigenetic-clock-aging-research">https://internships.nthrys.com/epigenomics/ai-epigenetic-clock-aging-research</a>                      |
| <b>ATAC-seq Peak Analysis Pipeline Development</b><br><a href="https://internships.nthrys.com/epigenomics/atac-seq-peak-analysis-pipeline">https://internships.nthrys.com/epigenomics/atac-seq-peak-analysis-pipeline</a>                      | <b>ChIP-seq Data Integration and Visualization</b><br><a href="https://internships.nthrys.com/epigenomics/chip-seq-data-integration-visualization">https://internships.nthrys.com/epigenomics/chip-seq-data-integration-visualization</a>         |
| <b>DNA Methylation Biomarker Discovery</b><br><a href="https://internships.nthrys.com/epigenomics/dna-methylation-biomarker-discovery">https://internships.nthrys.com/epigenomics/dna-methylation-biomarker-discovery</a>                      | <b>Epigenetic Regulation of Gene Expression</b><br><a href="https://internships.nthrys.com/epigenomics/epigenetic-regulation-gene-expression">https://internships.nthrys.com/epigenomics/epigenetic-regulation-gene-expression</a>                |
| <b>Chromatin Remodeling Complex Mapping</b><br><a href="https://internships.nthrys.com/epigenomics/chromatin-remodeling-complex-mapping">https://internships.nthrys.com/epigenomics/chromatin-remodeling-complex-mapping</a>                   | <b>Tissue-Specific Epigenetic Pattern Analysis</b><br><a href="https://internships.nthrys.com/epigenomics/tissue-specific-epigenetic-pattern-analysis">https://internships.nthrys.com/epigenomics/tissue-specific-epigenetic-pattern-analysis</a> |
| <b>Enhancer Characterization and Validation</b><br><a href="https://internships.nthrys.com/epigenomics/enhancer-characterization-validation">https://internships.nthrys.com/epigenomics/enhancer-characterization-validation</a>               | <b>Long Non-coding RNA Epigenetic Regulation</b><br><a href="https://internships.nthrys.com/epigenomics/lncrna-epigenetic-regulation">https://internships.nthrys.com/epigenomics/lncrna-epigenetic-regulation</a>                                 |
| <b>Polycomb Group Protein Targeting Research</b><br><a href="https://internships.nthrys.com/epigenomics/polycomb-group-protein-targeting">https://internships.nthrys.com/epigenomics/polycomb-group-protein-targeting</a>                      | <b>Metabolite-Dependent Histone Modifications</b><br><a href="https://internships.nthrys.com/epigenomics/metabolite-dependent-histone-modifications">https://internships.nthrys.com/epigenomics/metabolite-dependent-histone-modifications</a>    |
| <b>Epigenetic Memory and Cell Identity</b><br><a href="https://internships.nthrys.com/epigenomics/epigenetic-memory-cell-identity">https://internships.nthrys.com/epigenomics/epigenetic-memory-cell-identity</a>                              | <b>RNA-directed DNA Methylation Pathways</b><br><a href="https://internships.nthrys.com/epigenomics/rna-directed-dna-methylation-pathways">https://internships.nthrys.com/epigenomics/rna-directed-dna-methylation-pathways</a>                   |
| <b>Histone Variant Localization and Function</b><br><a href="https://internships.nthrys.com/epigenomics/histone-variant-localization-function">https://internships.nthrys.com/epigenomics/histone-variant-localization-function</a>            | <b>Epigenetic Drug Target Identification</b><br><a href="https://internships.nthrys.com/epigenomics/epigenetic-drug-target-identification">https://internships.nthrys.com/epigenomics/epigenetic-drug-target-identification</a>                   |
| <b>Prion-like Protein Domain Propagation</b><br><a href="https://internships.nthrys.com/epigenomics/prion-like-protein-domain-propagation">https://internships.nthrys.com/epigenomics/prion-like-protein-domain-propagation</a>                | <b>Nutrient Sensing Epigenetic Response</b><br><a href="https://internships.nthrys.com/epigenomics/nutrient-sensing-epigenetic-response">https://internships.nthrys.com/epigenomics/nutrient-sensing-epigenetic-response</a>                      |
| <b>Stress Response Epigenome Dynamics</b><br><a href="https://internships.nthrys.com/epigenomics/stress-response-epigenome-dynamics">https://internships.nthrys.com/epigenomics/stress-response-epigenome-dynamics</a>                         | <b>Transgenerational Epigenetic Inheritance</b><br><a href="https://internships.nthrys.com/epigenomics/transgenerational-epigenetic-inheritance">https://internships.nthrys.com/epigenomics/transgenerational-epigenetic-inheritance</a>          |
| <b>Reprogramming Factor Binding Site Mapping</b><br><a href="https://internships.nthrys.com/epigenomics/reprogramming-factor-binding-site-mapping">https://internships.nthrys.com/epigenomics/reprogramming-factor-binding-site-mapping</a>    | <b>Insulator Element and TAD Boundary Analysis</b><br><a href="https://internships.nthrys.com/epigenomics/insulator-element-tad-boundary-analysis">https://internships.nthrys.com/epigenomics/insulator-element-tad-boundary-analysis</a>         |

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| <b>Phase Separation in Chromatin Regulation</b><br><a href="https://internships.nthrys.com/epigenomics/phase-separation-chromatin-regulation">https://internships.nthrys.com/epigenomics/phase-separation-chromatin-regulation</a>              | <b>Mitochondrial Epigenetic Regulation Research</b><br><a href="https://internships.nthrys.com/epigenomics/mitochondrial-epigenetic-regulation">https://internships.nthrys.com/epigenomics/mitochondrial-epigenetic-regulation</a>             |
| <b>Immune Cell Epigenetic Differentiation</b><br><a href="https://internships.nthrys.com/epigenomics/immune-cell-epigenetic-differentiation">https://internships.nthrys.com/epigenomics/immune-cell-epigenetic-differentiation</a>              | <b>CpG Island Methylation Status Profiling</b><br><a href="https://internships.nthrys.com/epigenomics/cpg-island-methylation-status-profiling">https://internships.nthrys.com/epigenomics/cpg-island-methylation-status-profiling</a>          |
| <b>Chromatin Fragility and Stability Assessment</b><br><a href="https://internships.nthrys.com/epigenomics/chromatin-fragility-stability-assessment">https://internships.nthrys.com/epigenomics/chromatin-fragility-stability-assessment</a>    | <b>X-chromosome Inactivation Pattern Analysis</b><br><a href="https://internships.nthrys.com/epigenomics/x-chromosome-inactivation-pattern-analysis">https://internships.nthrys.com/epigenomics/x-chromosome-inactivation-pattern-analysis</a> |
| <b>Viral Integration Epigenetic Silencing</b><br><a href="https://internships.nthrys.com/epigenomics/viral-integration-epigenetic-silencing">https://internships.nthrys.com/epigenomics/viral-integration-epigenetic-silencing</a>              | <b>Circadian Rhythm Epigenetic Oscillations</b><br><a href="https://internships.nthrys.com/epigenomics/circadian-rhythm-epigenetic-oscillations">https://internships.nthrys.com/epigenomics/circadian-rhythm-epigenetic-oscillations</a>       |
| <b>Progenitor Cell Epigenetic Plasticity</b><br><a href="https://internships.nthrys.com/epigenomics/progenitor-cell-epigenetic-plasticity">https://internships.nthrys.com/epigenomics/progenitor-cell-epigenetic-plasticity</a>                 | <b>DNA Damage Repair Chromatin Remodeling</b><br><a href="https://internships.nthrys.com/epigenomics/dna-damage-repair-chromatin-remodeling">https://internships.nthrys.com/epigenomics/dna-damage-repair-chromatin-remodeling</a>             |
| <b>Neurodevelopmental Epigenetic Patterning</b><br><a href="https://internships.nthrys.com/epigenomics/neurodevelopmental-epigenetic-patterning">https://internships.nthrys.com/epigenomics/neurodevelopmental-epigenetic-patterning</a>        | <b>Bivalent Chromatin Domain Dynamics</b><br><a href="https://internships.nthrys.com/epigenomics/bivalent-chromatin-domain-dynamics">https://internships.nthrys.com/epigenomics/bivalent-chromatin-domain-dynamics</a>                         |
| <b>Epigenetic Barcode Development and Validation</b><br><a href="https://internships.nthrys.com/epigenomics/epigenetic-barcode-development-validation">https://internships.nthrys.com/epigenomics/epigenetic-barcode-development-validation</a> | <b>Synthetic Epigenetic Circuit Engineering</b><br><a href="https://internships.nthrys.com/epigenomics/synthetic-epigenetic-circuit-engineering">https://internships.nthrys.com/epigenomics/synthetic-epigenetic-circuit-engineering</a>       |
| <b>Microbiome-Host Epigenetic Interaction</b><br><a href="https://internships.nthrys.com/epigenomics/microbiome-host-epigenetic-interaction">https://internships.nthrys.com/epigenomics/microbiome-host-epigenetic-interaction</a>              | <b>Carcinogenic Chemical Epigenomic Effects</b><br><a href="https://internships.nthrys.com/epigenomics/carcinogenic-chemical-epigenomic-effects">https://internships.nthrys.com/epigenomics/carcinogenic-chemical-epigenomic-effects</a>       |
| <b>Heterochromatin Protein Dynamics and Kinetics</b><br><a href="https://internships.nthrys.com/epigenomics/heterochromatin-protein-dynamics-kinetics">https://internships.nthrys.com/epigenomics/heterochromatin-protein-dynamics-kinetics</a> | <b>Genomic Imprinting Pattern Evolution</b><br><a href="https://internships.nthrys.com/epigenomics/genomic-imprinting-pattern-evolution">https://internships.nthrys.com/epigenomics/genomic-imprinting-pattern-evolution</a>                   |
| <b>Plant Epigenetic Adaptation Research</b><br><a href="https://internships.nthrys.com/epigenomics/plant-epigenetic-adaptation-research">https://internships.nthrys.com/epigenomics/plant-epigenetic-adaptation-research</a>                    | <b>Fibrosis-Associated Epigenetic Remodeling</b><br><a href="https://internships.nthrys.com/epigenomics/fibrosis-associated-epigenetic-remodeling">https://internships.nthrys.com/epigenomics/fibrosis-associated-epigenetic-remodeling</a>    |

# Epigenomics Internship Topics and Focused Areas

## AI Epigenetic Clock & Aging Research

- Epigenetic Age Prediction Model Development
- DNA Methylation Data Processing & Quality Control
- Aging-Associated Epigenetic Markers Identification
- Integrative Multi-Omics Analysis for Aging Research
- Validation & Benchmark Development for Epigenetic Clocks

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