Unpublished Futuristic Focussed Areas in Genomic Medicine

Back to All Internships | Genomic Medicine Internship Fee Details

- **1. Predictive Genomic Intelligence Systems**
  - AI-based prediction of complex trait inheritance patterns.
  - Predictive models for future disease onset via polygenic risk scores.
  - Machine learning-based genomic forecasting for neonatal health planning.
  - Temporal mapping of gene expression changes before symptom onset.
  - Pre-symptomatic drug response profiling using digital twin genomes.
  - AI-augmented diagnosis pipelines linked to real-time genetic databases.
  - Brain-gene interaction predictions for neurodegenerative prevention.
  - Cross-population predictive analytics for variant interpretation.
  - Microbial genome prediction for host metabolic syndromes.
  - Smart genome surveillance systems for pandemics and mutations.
- **2. CRISPR-based Regenerative Genomics**
  - In vivo CRISPR therapy design for organ-level regeneration.
  - Epigenetic reprogramming using programmable DNA/RNA editors.
  - Scaffold-free gene-guided tissue regeneration models.
  - CRISPR-vectors for autoimmune tissue correction.
  - Smart feedback-controlled CRISPR circuits in stem cells.
  - Self-regulating CRISPR nanosystems for chronic disease reversal.
  - Integration of CRISPR with wearable wound regeneration systems.
  - Organoid regrowth stimulation via synthetic genome control.
  - CRISPR editing to mimic rare protective mutations in patients.
  - Regenerative network programming in iPSC-based therapies.
- **3. Genome-Linked Behavioral Medicine**
  - Behavioral prediction based on neuromodulatory gene clusters.
  - Gene-emotion response profiling for psychiatric drug matching.
  - Micro-RNA signatures linked to impulse control disorders.
  - AI mapping of behavioral phenotypes from transcriptomics data.
  - Digital therapeutics designed using emotional genome mapping.
  - Therapy optimization using real-time behavioral genomics analytics.
  - Genomic biomarkers for addiction susceptibility and recovery design.
  - Crosslinking circadian genes to mental health stability programs.

- ○ Neuroepigenetic modulation via optogenetics and gene fusion.
- ○ Gamified interventions based on personality-genome correlations.
- **4. Population-Scale Genomic Equity Systems**
  - ○ Decentralized genome banks for ethnic health equity studies.
  - ○ AI-powered rare disease detection in underrepresented populations.
  - ○ Blockchain-enabled genomic data ownership models.
  - ○ Cross-continent ancestry-based medication efficacy tracking.
  - ○ Public health planning via metagenomic surveillance tools.
  - ○ Population genomics pipelines for climate-vulnerable communities.
  - ○ Global access frameworks for preventive genomic screening.
  - ○ Equity-driven AI for multi-ethnic mutation interpretation.
  - ○ Federated learning models for low-resource genomic AI training.
  - ○ Indigenous genomic archive protection through quantum encryption.
- **5. Post-Genomic Digital Health Integration**
  - ○ Integration of genomic wearables with hospital health networks.
  - ○ Real-time gene expression sensors for on-demand therapy triggering.
  - ○ Genomic chatbot systems for clinical decision support.
  - ○ Voice-genome interface tools for remote diagnostics.
  - ○ Multi-omics fusion dashboards for genomic case management.
  - ○ Augmented reality visualization of patient genome variants.
  - ○ Digital passports for pharmacogenomic identity and travel medicine.
  - ○ Patient genome-data gamification for therapy adherence.
  - ○ Tele-genomics systems with instant sequence interpretation.
  - ○ Smartphone-connected saliva sequencers for personalized triage.

Contact Via Whatsapp on +91-7993084748 for Fee Details

Apply

Internship Fee Structures			
Duration	**Academic Mode**	**Technical Mode**	**Research Mode**
5 Days	Rs 3750	Rs 6000	Rs 9000
10 Days	Rs 4500	Rs 6750	Rs 9750
15 Days	Rs 4950	Rs 7200	Rs 12000
20 Days	Rs 6750	Rs 9000	Rs 15000
30 Days	Rs 7500	Rs 10500	Rs 19500

45 Days	Rs 9000	Rs 12000	Rs 22500
2 Months	Rs 10500	Rs 13500	Rs 27000
3 Months	Rs 12000	Rs 22500	Rs 34500
4 Months	Rs 18000	Rs 28500	Rs 42000
5 Months	Rs 22500	Rs 31500	Rs 49500
6 Months	Rs 27000	Rs 36000	Rs 54000
7 Months	Rs 28500	Rs 40500	Rs 64500
8 Months	Rs 31500	Rs 45000	Rs 72000
9 Months	Rs 36000	Rs 52500	Rs 82500
10 Months	Rs 43500	Rs 60000	Rs 97500
11 Months	Rs 48000	Rs 67500	Rs 112500
1 Year	Rs 57000	Rs 75000	Rs 142500

18% additional GST on all fee structures.

Installment options are available for all durations.

NTHRYS Students

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Deliverables	Academic Mode	Technical Mode	Research Mode
Certification	✓	✓	✓
Hands-On Practical Exposure	✓	✓	✓
Thesis	✓	✗	✓
PowerPoint Assistance	✓	✓	✓
Protocol Repetitions	✗	✓	✓
Publication Coauthorships	✗	✗	3 Months Duration onwards
References	✗	✓	✓
Recommendations	✗	✗	✓
Experience Letters	✗	✗	6 Months Duration Onwards
Placement Assistance	✗	✗	6 Months Duration Onwards
Placement Guarantee	✗	✗	1 Year Duration

Offline Locations

Hyderabad

Cherlapalli IDA, 500051 Chennai

Parrys Corner, 600001	Bangalore
Jalahalli, Bahubali Nagar	Kochi
Aroma Gardens, Beside Townhall Metro	Visakhapatnam
Address will be updated in few days	Bhubaneswar
Address will be updated in few days	Kolkata
Address will be updated in few days	Patna
Address will be updated in few days	Lucknow
Address will be updated in few days	Chandigarh
Address will be updated in few days	Jaipur
Address will be updated in few days	Ahmedabad
Address will be updated in few days	Indore
Address will be updated in few days	Dallas
825 Watters Creek Blvd, Allen	

Contact Us for further queries

Offline Timetable

3 - 5 Hours per day | 4 Days Practicals / week | 1 Day Reporting

Weekly Schedule

Tuesday to Friday: Practical Sessions
Saturday: Documentation Day
Sunday & Monday: Weekend Holidays

Lab Working Hours

9:30 AM to 5:30 PM

Students/Scholars are assigned **3 to 5 hours/day** based on their protocols.

Online Mode Workflow

2 to 4 hours per day as per discussed with NTHRYS Management before booking the slot.

All activities (Online / Virtual and Offline) are managed through the **NTHRYS Project Dashboard System** — a web portal designed exclusively to facilitate, guide, and track your progress throughout each phase.

Phase 1: Topic / Title Finalization

Guided assistance in selecting and refining your research topic or project title within the dashboard interface.

Phase 2: Research Methodology Finalization

Step-by-step guidance in defining objectives, research questions, and methodology using interactive templates and mentor feedback on the dashboard.

Phase 3: Software, Tools, and Statistical Approaches

Installation assistance, tool demonstrations, and access to recommended software provided via the dashboard with mentor instructions and documentation.

Phase 4: Task Execution

Students/scholars execute research tasks on their own systems while mentors monitor and guide progress through the dashboard system.

Phase 5: Results Analysis

Data analysis, results review, and interactive discussions are facilitated through dedicated dashboard modules ensuring research integrity.

Phase 6: Documentation

Proper documentation of results, methodology, and conclusions using dashboard templates, ensuring consistency and completeness.

No Video Calls, No Theory Classes: All learning is task-based, with hands-on execution by students/scholars under the guidance of mentors using the **NTHRYS Project Dashboard System**.

Click Here to know schedule, offline locations, calendar, modes of operation etc.,

Important Note
Note 1: Candidates may select any one of the focused areas listed for their internship.
Note 2: Fundamental concepts are provided as guidance for candidates who require them; however, candidates may choose to bypass these sections if desired.
Note 3: All candidates will gain practical, hands-on experience with every step outlined in the provided methodology.
Note 4: Comprehensive placement assistance and career guidance will be available to all candidates during and after the internship.
Note 5: We understand that many students may lack basic practical exposure due to shortcomings in their college education. This is not the fault of the students but rather a failure of the institutions and their staff. At NTHRYS, our staff excel at training every student from the ground up, ensuring they gain the necessary skills and experience.