

Genetic Engineering

About Us

InternsForge is the bridge that takes you from books to the on-field application of any and everything you want to learn. You should be trained to apply all your learnings in the real world right from the start. This not only makes your learning process a lot more fun but sets you apart from the dense competition through your exceptional skills from our holistic learning approach.



“We're not here to just teach;
we're here to transform”

30,000+ Students Turned Industry-Ready Professionals

4.5+ Star rating on Google from 325+ Happy customers

Have our presence in over 4000+ colleges including top IITs, IIMs, NITs, IIITs etc

Students from InternsForge are working in Top MNCs like IBM, Accenture, Innodata, Cognizant etc



GENETIC ENGINEERING



What is Genetic Engineering ??

Welcome, bio-hackers, to the double-helix dimension of Genetic Engineering—where DNA is the code, cells are the canvas, and nature's blueprint is just the starting point! Here, scientists wear lab coats like battle armor, and pipettes are wands rewriting the very script of life.

Step into a world where genes are edited like lines of code, crops grow with superpowers, and diseases get debugged at the molecular level. Whether you're crafting glow-in-the-dark plants or flipping genetic switches to fight cancer, genetic engineering isn't just science—it's molecular wizardry, a quest to remix evolution, and a real-life storyline where you get to upgrade life itself.

Scope of Genetic Engineering ??

Congrats!! 🎉
You just made a great
choice



Did You Know ??

- India's genetic engineering sector is rapidly advancing, driven by biotech innovation, research funding, and growing demand in healthcare and agriculture. Valued at **\$80 billion in 2022**, India's biotech industry is projected to reach **\$150 billion by 2025 (IBEF)**.
- The agricultural biotech segment is playing a major role, with genetically modified (GM) crops improving yield, resistance, and sustainability. Meanwhile, medical applications like gene therapy, **CRISPR-based editing**, and personalized medicine are transforming healthcare possibilities.
- With strong academic support and initiatives like **BIRAC** and Make in India, the country is emerging as a key player in **global genetic engineering**.

Are We Really Different ??



‘This is NOT a Course, This is a Commitment’

The internet is full of online courses- free as well as paid, college students have access to top professors and high quality study materials.

Still our unemployment ratio continues to grow.

At the same time, the stress and worry faced by today's college students reach the sky!



“ Now it's time to leave all your worries up to us and experience a transformed way to learning ”



4 Gaps That We Fill for You

1 Learn From Your Idols

- **Learn from Your Idols Currently**

Working At Your Dream Jobs

You are already getting trained by top quality college professors, now time to cover the gap between theory and actual industry work. Get trained by professionals working at your dream jobs, get inspired, get guided, and get ready to reach your dreams.

- **Interactive-Live Classes**

90% of the students never finish the online courses they enroll in. Get ready of an entirely different experience, where you learn while interacting with your mentors in a motivational environment where you can't wait for the next session. Get Inspired! Get Going!



2 Filling the Communication Gap

- **Special Emphasis on Your English Communication Skills**

Even the most highly skilled professionals have reported not getting the job due to lack of effective English communication skills . Our focus will not only be to develop you industry-level skills but also efficient skills to present to the world everything you have learned confidently and fluently.

- **Group Discussion Sessions**

Learn with the strongest tools-Practice. We will consistently arrange group discussions sessions where you can practice to put your thoughts out their with professionalism and fluency.



3 Advanced Placement Preparation

• Advanced Interview Preparation Tools

Get FREE access to our advanced interview preparation tool where you can:

- Select the desired job role you want to interview for.
- Answer the interview questions.
- Get evaluation and feedback on your answers, tone, communication, expressions, confidence and everything the interviewer looks for.
- Work on your shortcomings and use the tool regularly till you securely land your dream job.



• Our Highly Efficient Job Portal

Get access to our own exemplary job portal which combines and brings for you all the latest job openings from each and every platform at together at one place.

• Advanced Resume Building Sessions

Learn what MNCs look for in their ideal resumes customized to your desired job role and explore the secrets that sets apart a resume from the dense crowd of job seekers.



4 Experience Working on Live Industry Level Projects

- **4 Live Industry Level Projects**

There is a humongous difference between learning from your classroom, books, notes vs. having industry experience where you know the current industry demands and are an expert at fulfilling those demands.

At InternsForge we make sure that your learning runs parallel to the applications of your learning, i.e right from the start till the end you are consistently applying everything you are learning in form of 4 main projects that are going on in the current industry



- **Projects Assigned and Guided by Industrial Mentors**

Since the purpose of this program is to get you industry ready. You will be assigned projects through your mentors who are working in the industry. You get to work on the projects that are highest in demand as per the industry requirements of the time you are taking the course.

You get consistent guidance from your mentors with additional doubt clearing sessions as per your demand for the smooth running of your projects.



ROADMAP

Introduction Webinar

Between 20 to 25th of the month, you will have your introduction webinar where you will get expert insights on the scope of the subject and your growth graph with the selected career.

During 2 Months of Intensive Training

During your training the following will be covered:

- 30+ hrs of interactive-live sessions with industry experts
- 4 Industry Level Projects
- Advanced Job Preparation

After 40+ Hrs. of Intensive Training

- Certificates that sets you apart
- Access to the most efficient job portal
- Access to the AI portal where you can practice for interview sessions.

Orientation Session

Within the first week of initial payment you will have your first orientation session where you will get an in-depth introduction to our process.

2 Months of Intensive Training

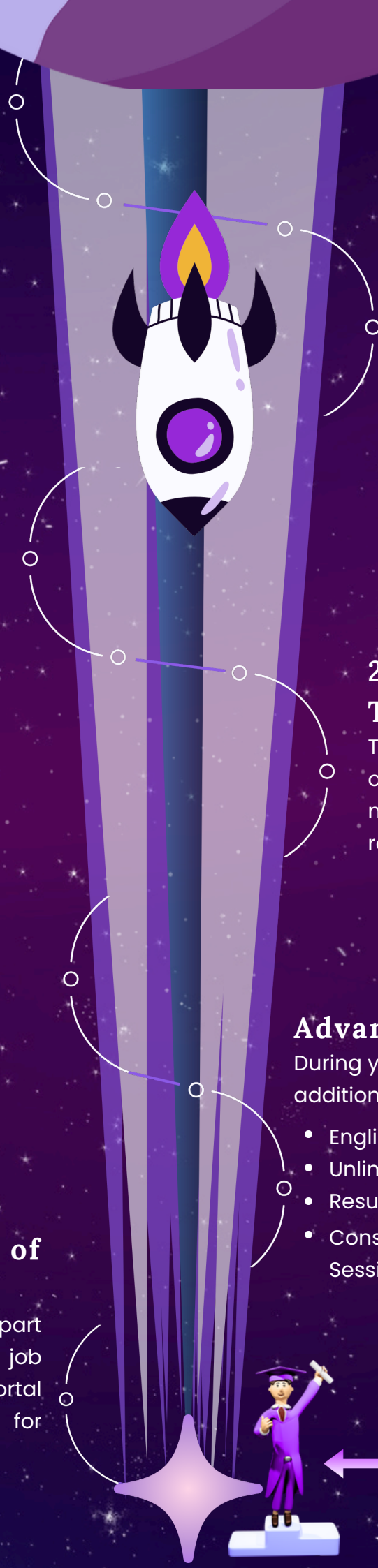
Then we will start your 30+ hrs of intensive training. Where we make sure you are industry-ready.

Advanced Job Preparation

During your training the following additional things will be covered:

- English Communication Training
- Unlimited Interview Practice
- Resume Building Training
- Constant Quiz & Questionnaire Sessions

“The best version of you all set to conquer your Dreams”

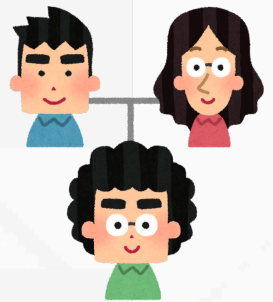


Curriculum

MODULE 1

Basic Genetics

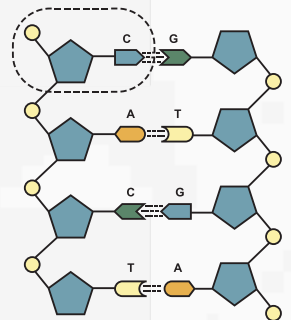
- ***Understanding DNA***
- ***Genes***
- ***Chromosomes***
- ***Mendelian Genetics***



MODULE 2

Molecular Genetics

- ***DNA Replication***
- ***Transcription***
- ***Translation***
- ***Genetic Variation***



MODULE 3

Introduction to Genetic Engineering

- ***Overview of Genetic Engineering***
- ***Scope and Applications of Genetic Engineering***



Curriculum

MODULE 4

Tools and Techniques of Genetic Engineering

Restriction Enzymes

DNA Ligase

PCR

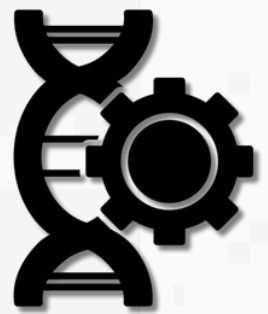
Gel Electrophoresis



MODULE 5

Cloning Vectors and Transformation

- ***Cloning Vectors Transformation***
- ***Transfection***



MODULE 6

Agricultural Biotechnology

Transgenic Plants and Animals

CRISPR in Agriculture



Curriculum

MODULE 7

Medical Biotechnology

- ***Gene Therapy and Molecular Medicine***
- ***Pharmacogenomics***



MODULE 8

Industrial and Environmental Biotechnology

- ***Production of Enzymes***
- ***Biofuels***
- ***Bioremediation***
- ***Biocontrol***



MODULE 9

Advanced Techniques and Future Trends

- ***Genome Editing Tools like CRISPR-Cas9***
- ***Synthetic Biology and Bioinformatics***



Virtual Laboratory Sessions

- **Virtual Lab Safety and Basic Techniques:** Utilize virtual lab platforms like Labster or Learn Genetics.
- **Virtual Exercises on Genetic Engineering Techniques:** Exercises on DNA extraction, PCR, gel electrophoresis, and bacterial transformation using virtual platforms.



THANK YOU



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