Bioinformatics

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

What is BioInformatics ??

Ladies and gentlemen, grab your lab coats and boot up your supercomputers—because we're diving headfirst into the wild, data-drenched world of Bioinformatics! This is where biology meets bytes, DNA meets databases, and your average scientist turns into a full-blown code-crunching detective of life itself.

Welcome to the digital jungle of genes, where gigabytes of genetic code are analyzed faster than you can say "deoxyribonucleic acid." In Bioinformatics, we don't just study cells—we simulate them. We don't just read genomes—we decode them like futuristic treasure maps, searching for secrets that could cure diseases, grow better crops, or even predict your next health risk before your body knows it.

Scope of BioInformatics ??

Congrats!!🥳
You just made a great choice

Did You Know ??

- According to a report by Grand View Research, the global bioinformatics market was valued at **USD 10.8 billion** in 2022 and is projected to reach **USD 28.7 billion** by 2030, growing at a **CAGR of 13.2%** during the forecast period.

- The rapid rise of genomic research, precision medicine, and big data analytics is driving this growth. With next-generation sequencing technologies generating massive amounts of biological data, bioinformatics has become essential in storing, analyzing, and interpreting complex datasets.

- In the healthcare segment, bioinformatics is revolutionizing disease diagnostics, drug discovery, and personalized treatment. As per Global Market Insights, the genomics segment alone accounted for **over 35%** of the total market share in 2022, underscoring its critical role in modern medicine.

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 "

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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 Certifications

- **Course Completion Certificate & Project completion certificate in collaboration with E-Cell IIT Indore**

  At the end of course you will get some time to submit your project report. After submission of your project report you will get a course completion certificate and project completion certificate in collaboration with E-Cell IIT Indore.

- **Internship certificate from our partnered companies :**

  We have some of our partnered Companies like Datex, Corevo, Smart swift Innovation etc which operates in different type of technologies. You will get a chance to work on some live-projects from these companies and after the completion of project and submission of project report; you will be awarded with an internship certificate from these companies.

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- ## 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

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.
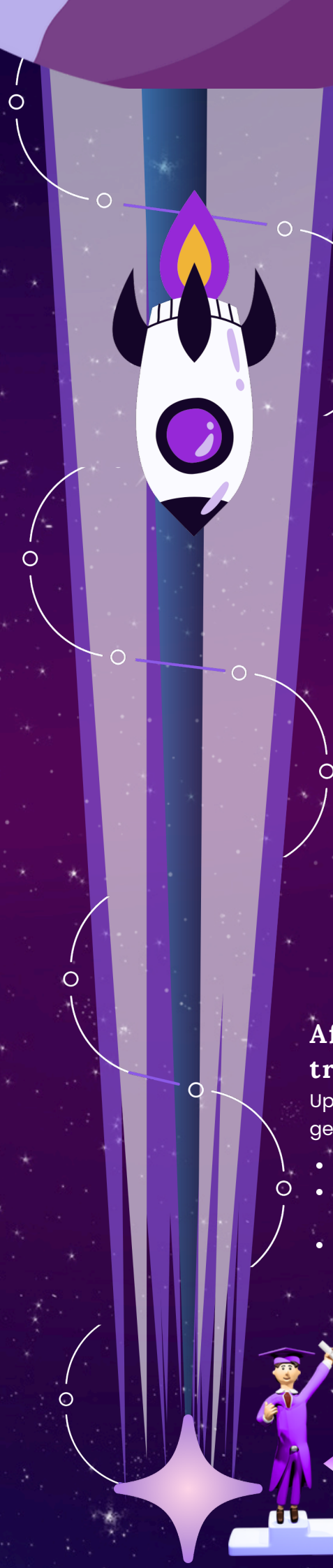
Introduction Webinar

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.

2 Months of Intensive Training

Then we will start your 25+ hrs of intensive training. Where we make sure you are industry-ready.

During 2 Months of Intensive Training

During your training the following will be covered:
- 25+ hrs of interactive-live sessions with industry experts
- 2 Industry Level Projects

After Completion of training:

Upon submission of project report You will get:

- A course completion certificate from
- InternsForge A project completion certificate from InternsForge in collaboration with E-cell of IIT Indore
- An internship certificate from our partnered companies

"The best version of you all set to conquer your Dreams"

Curriculum

MODULE 1

Introduction
- *Introduction to Bioinformatics, Computational Biology.*
- *Classification of different Databases and Tools.*
- *File format of Database*
- *Introduction to alignment(Pairwise and Multiple Alignments)*

MODULE 2

- *Different search tools (NCBI and PubMed) Retrieving.*
- *FASTA sequence of any Specific Organisms Gap.*
- *Penalties and Substitution Score and Matrices.*

MODULE 3

- *Introduction to BLAST tool*
- *Similarity search using the BLAST tool*
- *Understanding different features of the BLAST tool and interpreting the results*

Curriculum

MODULE 4

- **Introduction to Pairwise Alignment**
- **Tools used for Pairwise alignment**
- **Comparison of the Orthologous and Paralogou sequence using pairwise alignment**

MODULE 5

- **Introduction to Multiple Sequence Alignment**
- **Bioinformatics tools used for Multiple Sequence Alignment**
- **Multiple Sequence Alignment of different sequences Alignment and determination of SignatureSequence**

MODULE 6

- **Introduction to Molecular Phylogenetics**
- **Different elements of the Phylogenetic Model**
- **Different types of Phylogenetic trees Molecular Clock Hypothesis 20/07**

Curriculum

MODULE 7

- *Different tools for building a Phylogenetic Tree*
- *Building Phylogenetic Tree and interpreting the results*
- *Interpreting the results of the Phylogenetic Tree*

MODULE 8

Learn what it means by Updating & Deleting Products using Native React

THANK YOU

📞 +91- 8660501030

✉️ support@Internsforge.com

🌐 www.Internsforge.com