KRUTANIC

A LADDER FOR BRIGHTER FUTURE

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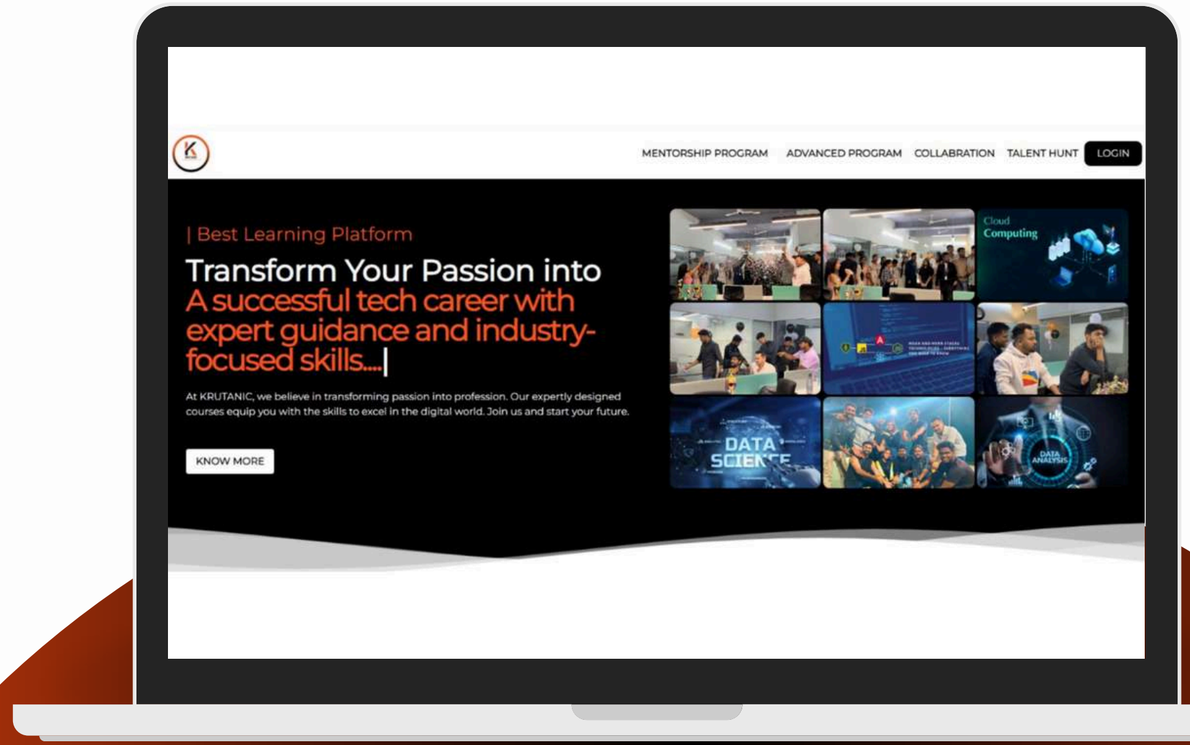


TRAINING AND INTERNSHIP PROGRAM

About us

"Krutanic Solutions is at the forefront of transforming education through cutting-edge technology. Our comprehensive platform empowers learners with personalized learning experiences, collaborative tools, and real-time analytics. With adaptive assessments and interactive content creation, we enhance student engagement and achievement. Join us in revolutionizing education for the digital age, driving positive outcomes and preparing learners for success in tomorrow's world. "

NANO TECHNOLOGY AND GENETIC ENGINEERING

Why Nano Technology and Genetic Engineering?

- Nanotechnology is revolutionizing industries like medicine, electronics, and energy, creating high demand for skilled professionals.
- Genetic engineering is transforming healthcare, agriculture, and biotechnology, creating a high demand for skilled professionals.
- Nanotechnology roles, such as nanoengineers and researchers, offer competitive salaries due to their specialized expertise.
- Genetic engineers and biotech researchers enjoy lucrative salaries due to their crucial role in developing genetic solutions.
- From drug delivery systems to advanced materials, nanotechnology offers versatile career paths across various sectors.
- Nanotechnology is a global field, offering opportunities to work on international projects and cutting-edge innovations.

1ST MONTH

Live sessions with industrial experts having experience above 5 years in the industry.

Recordings of all live sessions available with lifelong access in our LMS portal.

Industry related curriculum designed by the professional working in the top hierarchy.

2ND MONTH

Two real time industrial projects :- One minor project and One major project.

All mentors will be assigned as project leads and guide the intern till the completion of the project.

Additional projects for personal development can be required.

Curriculum included

MODULE - 01

Introduction to Genetic Engineering Overview of genetic engineering and its applications Historical milestones in genetic engineering. Ethical and societal implications of genetic engineering

MODULE - 02

Molecular Biology Basics, Basics of molecular biology (DNA structure, replication, transcription, translation) Techniques for gene isolation and manipulation (PCR, restriction enzymes, etc.) Introduction to recombinant DNA technology.

MODULE - 03

Gene Cloning, Principles of gene cloning, Cloning vectors and host organisms, Molecular cloning techniques (plasmid DNA isolation, transformation, etc.).

MODULE - 04

Genetic Modification of Organisms, Overview of genetically modified organisms (GMOs), Techniques for genetic modification in plants and animals, Applications of GMOs in agriculture, medicine, and industry.

Curriculum included

MODULE - 05

Gene Editing Technologies Introduction to gene editing techniques (CRISPR Cas9, TALENs, ZFNs) Principles and applications of CRISPR-Cas9 technology Ethical considerations and challenges of gene editing.

MODULE - 06

Synthetic Biology, Overview of synthetic biology, Design principles and techniques for engineering biological systems, Applications of synthetic biology in medicine, energy, and environmental remediation.

MODULE - 07

Gene Therapy, Principles of gene therapy, Types of gene therapy approaches (viral vectors, gene editing, etc.), Clinical applications and challenges of gene therapy.

MODULE - 08

Genetic Engineering in Agriculture, Genetic modification of crops for improved yield, pest resistance, and nutritional value Environmental and socio-economic impacts of genetically modified crops, Regulation of genetically modified organisms in agriculture.

Curriculum included

MODULE - 09

Genetic Engineering in Medicine, Applications of genetic engineering in medicine (gene therapy, personalized medicine, etc.), Drug development and production using biotechnology Challenges and future prospects of genetic engineering in healthcare.

MODULE - 10

Industrial Biotechnology, Overview of industrial biotechnology, Production of biofuels, pharmaceuticals, and bioplastics using genetic engineering, Bioprocess engineering and scale-up considerations.

MODULE - 11

Environmental Biotechnology, Bioremediation techniques for environmental cleanup, Biodegradation of pollutants using genetically engineered microorganisms, Bio-based approaches for sustainable resource management.

Discover why this Nano Technology and Genetic Engineering course is essential for your learning journey

Google Ratings
4.8 / 5

Mentees Trained
15k +

Hiring Partners
200+

Job Openings
35000+

Average Salary
9+ LPA

Global Size
USD 174 Billion

Certifications

01

Training Completioon Certificate Validates the skills which acquired

02

Internship Completion certificate certified by " WIPRO dice Id "

03

LOR (Letter of recommendation)

04

Certificate of exellence

05

Placement Assistance

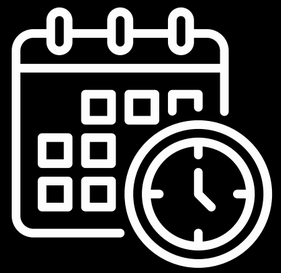
Our process

Quick guide

1

Register with us

2



Schedule your classes

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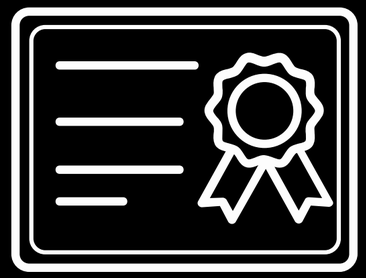

Certifications

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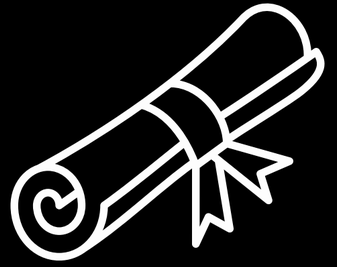

Placement assistance

Program ratings

STUDENTS AVERAGE RATINGS

★★★★½

4.85 / 5

Companies where our alumni thrive

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REACH OUT US

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www.krutanic.com

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