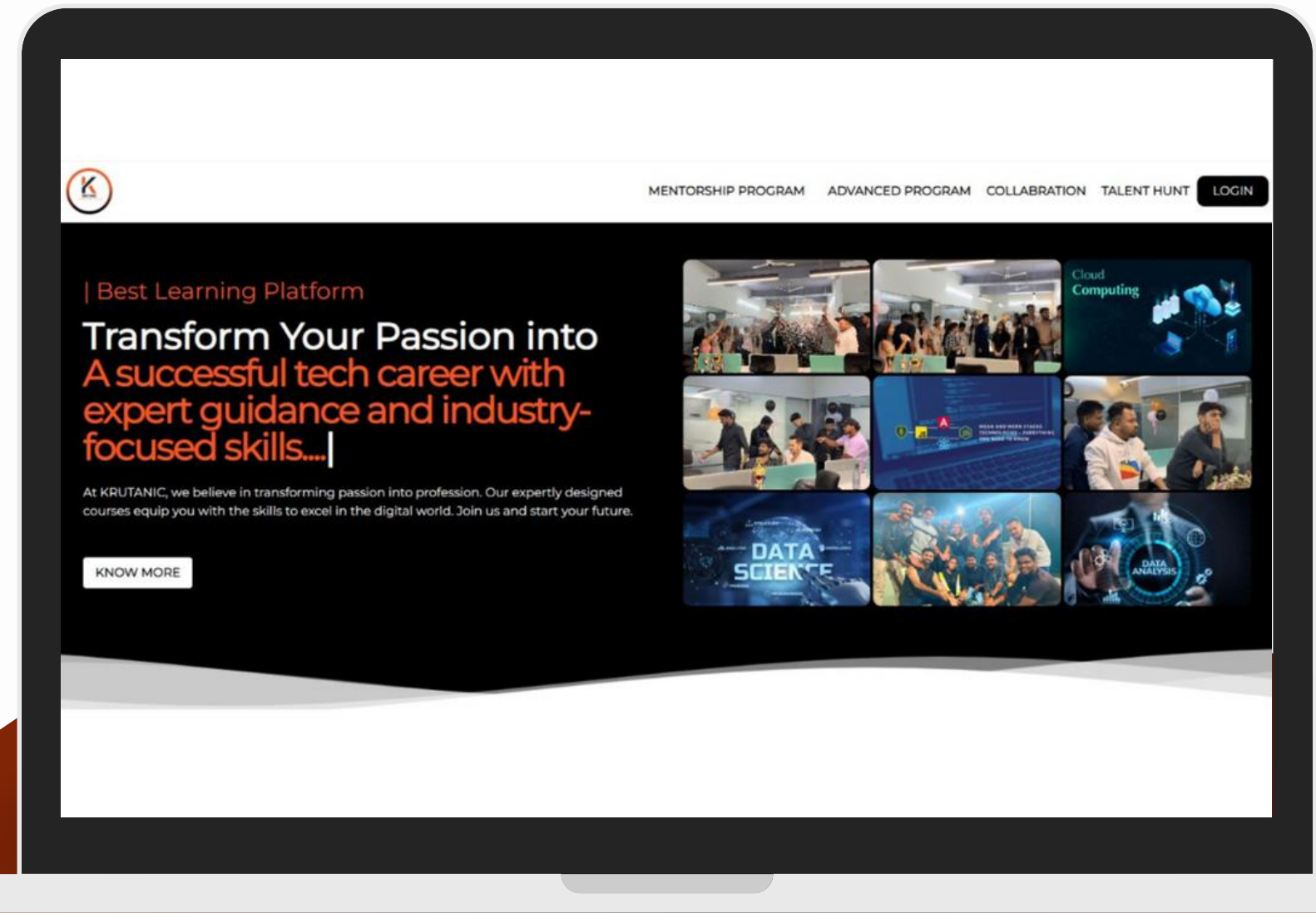




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A photograph of three students working on a project at a table. The student in the foreground is a young woman with long brown hair, wearing a green turtleneck sweater, focused on connecting black wires to a small electronic device. Behind her, a student in a yellow sweater is also working, and further back, a student in a red plaid shirt is visible. The table is covered with various electronic components, wires, and tools. The background is bright and slightly out of focus.

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.**

ST 1 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 Completion
Certificate Validates the
skills which acquired**

02

**Internship Completion
certificate certified by
" WIPRO dice Id "**

03

**LOR (Letter of
recommendation)**

04

Certificate of excellence

05

Placement Assistance

KRUTANIC
DER FOR BRIGHTER

Our process

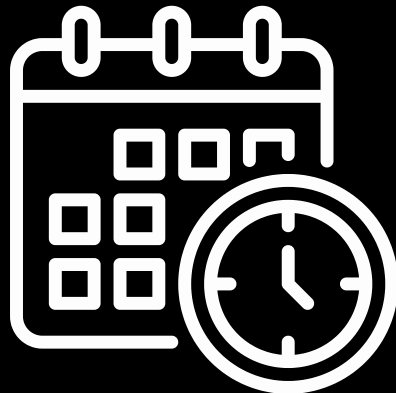
Quick guide

①



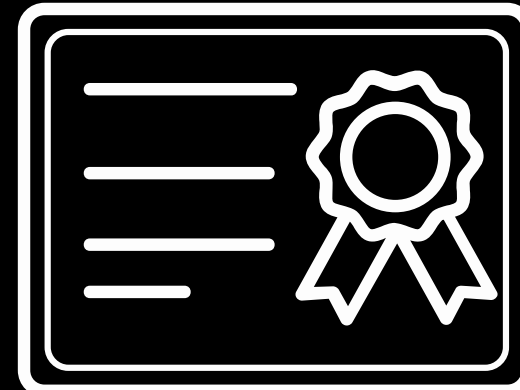
Register with us

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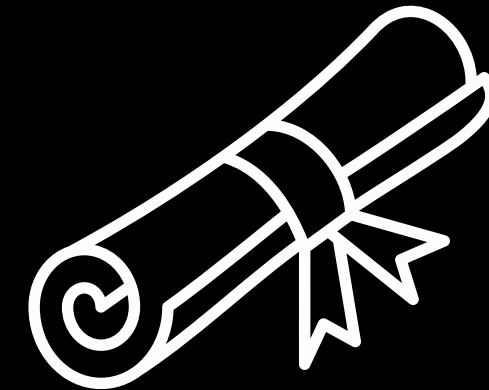
**Schedule your
classes**

③



Certifications

④



**Placement
assistance**

Program ratings



STUDENTS AVERAGE RATINGS



4.85 / 5

Brands where our alumni are





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