



Transforming Aspirations into Achievement

# NANO TECHNOLOGY

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**Master Nanotechnology with Expert Guidance!**

**SELF-PACED | MENTOR LED | PROFESSIONAL**





A Brief Story About The Company



# ABOUT US

Our team is dedicated to empowering students with the skills needed to thrive in today's ever-evolving job market. We believe that staying ahead requires continuous skill development to meet industry demands.

At innoKNOWVEX, we bridge the gap between current capabilities and the expertise sought by leading organizations. Our platform offers industry-specific training in a professional setting, equipping students with the knowledge and practical skills essential for securing employment in their chosen fields.



# About the Program

InnoKnowvex Edu Tech's 3-month program includes two months of industrial training with experts through live sessions & recorded materials.

The final month involves an individual project and a major project with affiliated companies, offering industry exposure and MNC work experience. This program prepares interns for successful careers in the field.

## Modes of Training

### ★ SELF PACED

- Recorded Sessions with doubt-clearing opportunities
- Lifetime access to study material
- Training Certification+Internship Opportunity

### ★ MENTOR LED

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity

### ★ PROFESSIONAL

- Live interactive sessions with doubt clearing
- Lifetime access to recordings
- Training Certification+Internship Opportunity+placement assistance



## FIRST TWO MONTHS

- Comprehensive industrial training from experts
- Live interactive sessions
- Lifetime access to session recordings
- Hands-on practice
- Mini-projects and exercises
- Real time engagement
- Immediate feedback
- Supportive learning environment
- Mentorship and peer collaboration
- Solid foundation
- Real-world projects in the internship phase

## THIRD MONTH

### Two key projects:-

1. Minor project focused on implementing and evaluating their skills independently.
2. Major collaborative project, providing industry exposure and experience in a multinational corporation environment.

**\*Interns work on real-world challenges under the guidance of experienced professionals, gaining valuable insights into industry practices while refining their technical skills. This hands-on experience prepares them for successful careers, giving them a competitive edge in the job market.**



# Explore the **CAREER PATHS**

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Nanomaterials  
Scientist

Materials  
Engineer

Research  
Associate

Nano  
Fabrication  
Specialist

Biomedical  
Device  
Developer

Energy  
Materials  
Engineer

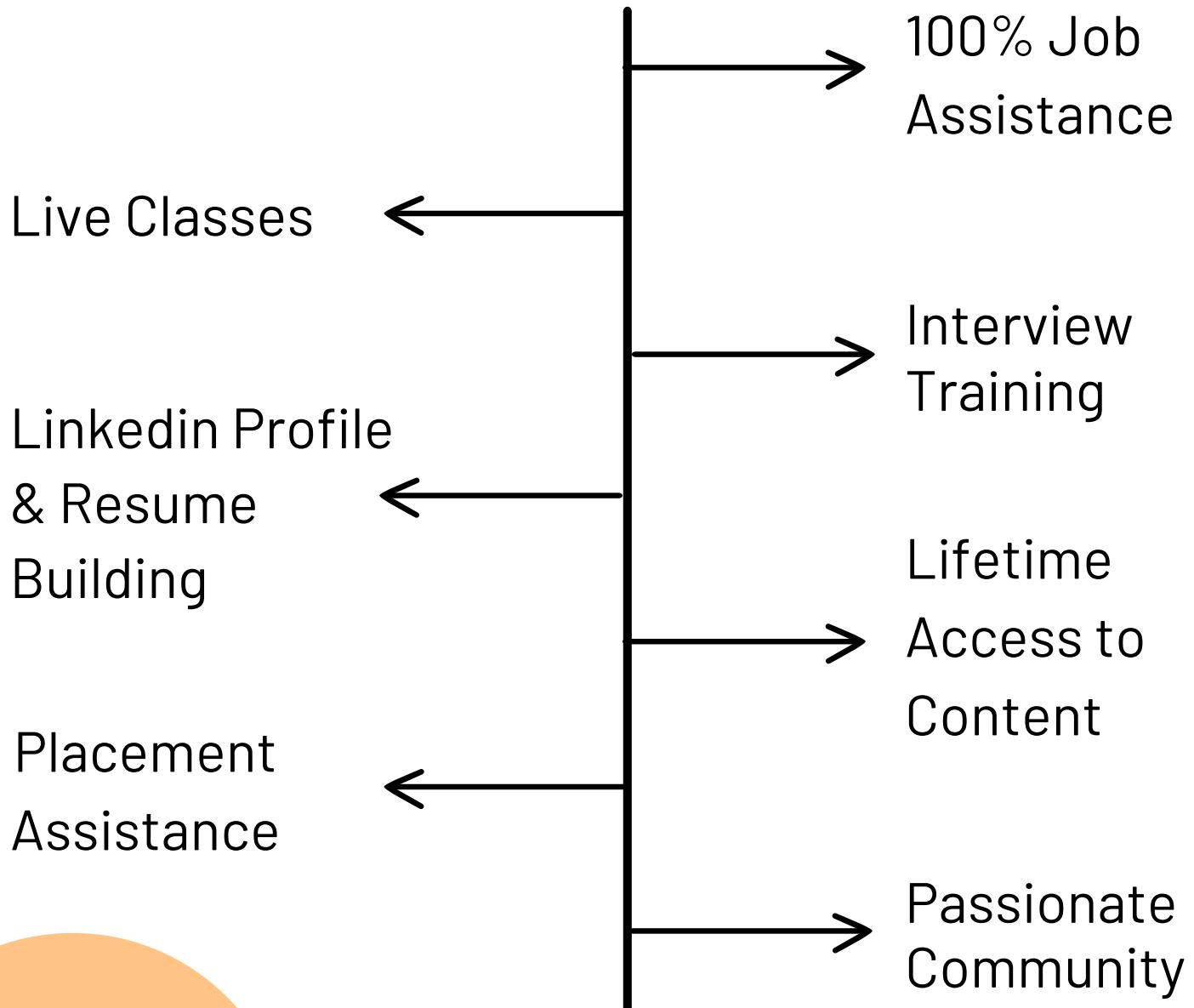
Lab  
Technician

Drug Delivery  
Systems  
Analyst

Academic  
/Ph.D.  
Researcher



# WHY US?





# KEY HIGHLIGHTS OF PROGRAM

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Fundamentals of  
Nanoscience

Fundamentals of  
Nanomaterials

Synthesis  
Techniques

Thin Film Deposition  
Techniques

Quantum  
Mechanics

Lab Protocols  
for Nano-Safety

Lab Protocols  
for Handling

Surface Characterization  
Tools Overview

Applications  
in Energy

Applications in  
Medicine

Applications in  
Electronics

Fabrication  
Methods

# Course Curriculum



## Week 1- Introduction to Nanoscience

01

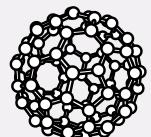
- Definition & importance of nanotechnology**
- Historical development & Scope in modern industries**
- Understanding nanoscale dimensions**



## Week 2- Nanomaterials Classification

02

- Carbon nanomaterials: CNTs, Fullerenes, Graphene**
- Metal, polymer, and composite nanomaterials**
- Surface properties and applications**

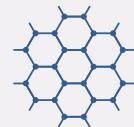




## Week 3 - Synthesis Approaches

03

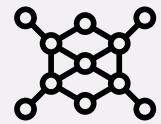
- Top-down & bottom-up techniques
- Ball milling, sol-gel & CVD, PVD processes
- Biological/green synthesis methods



## Week 4 - Fabrication Methods

04

- Thin film deposition
- Nano-lithography and imprinting
- E-beam writing basics & Cleanroom protocols



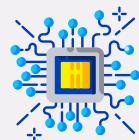
## ★ RESUME BUILDING WORKSHOP



## Week 5 - Surface & Size Characterization

05

- Particle size and surface area
- DLS, BET, Zeta potential
- Understanding porosity and morphology





## Week 6- Quantum Mechanics in Nanotech

06

- Quantum tunneling and confinement**
- Quantum dots and applications**
- Band gaps at nanoscale**



## Week 7 - Characterization Techniques

07

- SEM, TEM, AFM overview**
- UV-Vis, FTIR, XRD principles**
- Case-based instrumentation exposure**



## Week 8 - Electronics & Photonics Applications

08

- Nano-sensors, nano-optics**
- Quantum computing basics**
- MEMS/NEMS devices**



## ★ SOFT SKILL DEVELOPMENT WORKSHOP



### Week 9 - Biomedical Applications

09

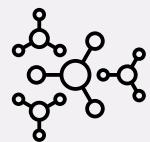
- Nano-drug delivery systems**
- Tissue engineering**
- Implants and nano-diagnostics**



### Week 10 - Energy Applications

10

- Nanotech in solar cells**
- Supercapacitors**
- Hydrogen storage & batteries**

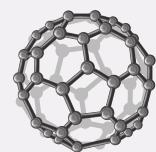




## Week 11 - Ethics & Regulations in Nanotech

11

- Safety & toxicity
- Ethical implications
- Global regulatory standards



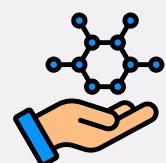
## SOFT SKILL DEVELOPMENT WORKSHOP



## Week 12 - Capstone Project & Review

12

- Application of acquired skills in a real-world problem
- Final presentation and critique
- Q&A, resume and career support session





# CERTIFICATIONS





*Pricing*

# PLAN

**Live Sessions>**

**Get real-time Assistance**

**₹2,500**

**Self Paced>**

**Learn at your own pace**

**₹2,500**



# OUR COLLABORATIONS

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Capgemini

IBM

wipro

accenture

meesho

SWIGGY

Razorpay

PhonePe

boAt



# COMPANY DETAILS

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