



FRONTIER TECH · ADVANCED · PHYSICAL AI, ROBOTICS, SPACE & DEEP TECH — 2026'S
COMMERCIAL EDGE

AI for Bio-Engineering & Drug Discovery

Protein-structure AI, generative molecule design and AI-optimised CRISPR: how modern computational biology actually accelerates discovery — taught for scientists and the engineers who support them.

🕒 5 weeks

💎 Live online, 2 sessions/week + wet-lab-aware labs

★ 4.9 · 75+ trained

PROGRAMME OVERVIEW

About this programme

AI has moved to the centre of the discovery pipeline: protein-structure and interaction models let teams reason about targets in hours instead of months, generative models propose candidate molecules and antibodies, and machine-learned CRISPR guide optimisation dramatically reduces off-target edits in published work. This program trains R&D scientists, bioinformaticians and platform engineers to use these systems rigorously — including their failure modes, validation discipline and the regulatory posture that keeps computational claims honest.

OBJECTIVES

What this programme sets out to do

- ✓ Build a working command of structure & targets
- ✓ Go deep on generative discovery
- ✓ Develop practical skill in genome engineering
- ✓ Master self-driving labs

AT A GLANCE

Key facts

CATEGORY Frontier Tech	LEVEL Advanced
DURATION 5 weeks · ≈ 30 contact hours	FORMAT Live online, 2 sessions/week + wet-lab-aware labs
COHORT SIZE Public & private cohorts	RATING 4.9 / 5 (75+ trained)
LANGUAGES 12+ (English, Hindi, Kannada ...)	CERTIFICATE Verifiable digital credential



WHO IT'S DESIGNED & DELIVERED FOR

Cohorts

R&D scientists, bioinformaticians, computational chemists, and ML engineers supporting life-science teams.

R&D scientists

bioinformaticians

computational chemists

Pre-requisites

- Prior hands-on experience in the relevant technical area.
- A laptop for the hands-on segments.
- One or two real use-cases from your work to apply the learning to.

Tentative duration & effort

5 weeks

- ≈ 30 total contact hours
- Live online, 2 sessions/week + wet-lab-aware labs
- Pacing adapts to your cohort; private cohorts can be re-scoped

WHAT YOU TAKE AWAY

Tangible outputs

- A verifiable, shareable digital certificate
- A role-specific prompt / playbook library
- Qube AI copilot access during the programme
- Session recordings and all working materials
- Entry to the Qubicon alumni community & office hours

MODULE - BY - MODULE

What we cover

MODULE	KEY TOPICS COVERED	HRS*
01 Structure & targets	Protein-structure model landscape · Interactions and dynamics in practice · Confidence metrics that matter · Lab: target dossier build	8
02 Generative discovery	Molecule and antibody generation · Scoring, filtering, validation gates · Hit-to-lead with AI in the loop · Lab: generative design run	8
03 Genome engineering	CRISPR guide optimisation with ML · Off-target prediction and assays · Safety and governance in editing · Lab: guide-design exercise	8
04 Self-driving labs	Closed-loop experiment design · Robotics and LIMS integration · 10x materials-style acceleration patterns · Capstone: discovery-loop blueprint	8

*Indicative contact hours per module; tuned to your cohort's pace and any private-cohort customisation.

TOOLS & TECHNOLOGIES

What you'll work with

AlphaFold-class models

RDKit

Python

CRISPR design tooling

Lab-automation APIs

Qube copilot

PROGRAMME OUTCOMES

What you'll be able to do

- ✓ Use protein-structure and interaction models in target work
- ✓ Run generative design loops for molecules and antibodies with validation gates
- ✓ Apply ML-based CRISPR guide optimisation and off-target analysis
- ✓ Design self-driving-lab style closed-loop experiments
- ✓ Document computational evidence for regulatory and publication review

Delivery & certification

- Live, expert-led sessions with hands-on labs and mentoring
- The Qube AI copilot supports every learner between sessions
- Delivered in 12+ languages with domain-accurate translation
- Verifiable digital certificate — verify any code at qubiconai.com/verify

Investment

\$300/hr · ₹11,999/hr

- **Individuals:** enrol & pay online (cards / UPI)
- **Enterprises:** quote → PO → GST invoice → net-30, zero upfront
- Private cohorts, on-site delivery & volume rates on request



For corporates & institutions

- Private cohorts engineered around your stack, data and use-cases
- Curriculum built by principal instructors with the Qube engine
- Capability analytics: engagement, skill-lift and applied-project ROI
- Procurement-friendly: quote → PO → GST invoice → net-30, zero upfront
- MSA, data-security review and on-prem / VPC delivery supported

For individual learners

- Enrol and pay online — cards, UPI or Razorpay
- Live, expert-led sessions (never pre-recorded)
- A verifiable certificate you can share with employers
- The Qube AI copilot supporting you between sessions
- Recordings, materials and an active alumni community

WHY QUBICON.AI

50K+

PROFESSIONALS TRAINED

650+

ENTERPRISE CLIENTS

50+

COUNTRIES SERVED

98%

SATISFACTION SCORE

- Live and expert-led — taught by practitioners who ship AI
- Qube, an adaptive AI copilot, for every single learner

- Verifiable, shareable certification employers trust
- Delivered in 12+ languages, localised to your teams
- Curriculum engineered around your industry and stack



Ready to begin?

Enrol, request a private cohort, or book a free 30-minute consult — our team replies within one business day.

WEBSITE

www.qubiconai.com

Programmes, catalogue & enrolment

EMAIL

contact@qubiconai.com

Corporate & institutional enquiries

OFFICES

Bengaluru · San Francisco

India & USA · delivery in 50+ countries

BOOK A CONSULT

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Free 30-minute capability call

Enrol or request this programme for your team

Reference QBN-AI-BIOENGINEERING-DRUG · AI for Bio-Engineering & Drug Discovery

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