

Master's degree in LIFE SCIENCES

International Track - Double Diploma

INDIAN-FRENCH MASTER IN COMPUTATIONAL BIOLOGY

YEAR 1



UNIVERSITÉ
CÔTE D'AZUR

YEAR 2



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

PROGRAM HIGHLIGHTS



International and multidisciplinary dual degree programme offered to biology students and those from the fundamental sciences



Double diploma : Master's Degree in Life Sciences (France), M.Tech Computational Biology (Inde)



Significant practical experience:

- During M1 : 5 months of compulsory internship in research laboratories or biotech/medtech industries in france
- During M2 : 1 year of immersion in research laboratories in India (New Delhi)



Multidisciplinary training of excellence in omic technologies, biological imaging, artificial intelligence and mathematical modelling of biological processes



Practical workshops led by engineers and industry professionals



DIPLÔME
NATIONAL DE
MASTER
CONTRÔLÉ
PAR L'ÉTAT



100% 
FULL COURSE
IN ENGLISH

life.univ-cotedazur.fr

PROGRAM OVERVIEW

The Indian French Master in Computational Biology (IFMCB) is a dual French-Indian degree program. The first year of the master's degree is completed in France and the second year in India at a world-renowned institute of technology: IIITD – New Delhi. This program offers real opportunities for an international career. Thanks to the choice of options and long internships abroad, each student can tailor their course to their interests, while building on a solid foundation in biology (genetics, ecology, neuroscience, medicine, etc.) and data modeling and analysis methods (such as artificial intelligence).

SKILLS DEVELOPED

- > Analyze massive biological data in the fields of omics and imaging
- > Program and develop data analysis pipelines
- > Formulate mathematical models to interpret biological measurements and provide predictions
- > Master basic techniques based on machine learning and AI
- > Work in an international environment

COURSES DETAIL:



ADMISSION REQUIREMENTS

Target audience: The IFMCB program is intended for students interested in bioinformatics or computational biology who have completed at least three years of higher education in science, as well as students wishing to study abroad.

Prerequisites:

- > Either have a solid background in biology, at least equivalent to a bachelor's degree
- > Or hold a multidisciplinary double bachelor's degree in mathematics and life sciences or a bachelor's degree in mathematics or physics, or be a graduate of an engineering school, while also having sufficient knowledge of molecular, cellular, and genetic biology
- > Have a minimum level of English of B2

Application procedures:

- Master 1: via the French national *MonMaster* platform
- Master 2: via Université Côte d'Azur eCandidat platform or via VAE (Validation of Acquired Experience)

FURTHER STUDIES

IFMCB graduates can pursue doctoral studies in laboratories in France, India, or elsewhere abroad. It is also possible to take additional training courses (in areas such as regulation, marketing, management, quality, intellectual property, etc.) to prepare for careers requiring dual skills.

CAREER OPPORTUNITIES

Graduates will be able to join research or development projects in jobs such as:

Datascientist **Biostatistician** **Bioanalyst** **Biomodeler** **Research Engineer** **Design Engineer**

Research careers: Graduates can pursue careers in fundamental or applied research, but also join companies, public bodies, local authorities, or associations. It is also possible to complete a thesis in the private sector through CIFRE grants.

Entrepreneurship: Support available for startup creation (e.g., Nucleate, UniCA Entreprendre).

Academic careers: Opportunities as researchers or lecturer-researchers.



Teaching Location

- 🇫🇷 Campus Valrose - Université Côte d'Azur - 28, avenue Valrose, 06000 Nice
- 🇮🇳 Indrapastha Institut of information Technology Delhi - Delhi 110020

Overall satisfaction rate for the Master's in Life Sciences program: 4.1/5 (2022 data, even semester - Source: MEAV)

Employment rate not available yet.

PROGRAM MANAGERS

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