MASTER OF SCIENCE (MSc) in BIOBANKS AND COMPLEX DATA MANAGEMENT
UNIVERSITÉ CÔTE D’AZUR

A University of Excellence on an Exceptional Territory

Université Côte d’Azur is a recently created cluster of higher education establishments on the French Riviera that brings together the major players in higher education and research on the Côte d’Azur. Université Côte d’Azur aims to develop a new, 21st-century model for French universities, based on new interactions between disciplines, a new form of coordination between research, teaching, and innovation, and strong partnerships with the private sector and local authorities.

In January 2016, Université Côte d’Azur won a prestigious ‘IDEX’ award from the French government for its UCAJEDI project, placing it among the top 10 world-class, comprehensive universities in France.

13 Outstanding institutions, working together as ONE UNIVERSITY

- Research-intensive, present in all international rankings
- An active college on the international scene
- A consortium of 6 Art schools
- National Research bodies multidisciplinary and emblematic in digital sciences
- 1 of the 3 French SPU establishments with a strong commitment to international projects
- A leading national center for simulation and innovation in hematology, biological resources and therapies
- A University of Excellence on an Exceptional Territory

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OUR AMBITION: TRAINING THE NEXT GENERATION OF BIOBANKERS

“The high-level training of the professional master’s degree in «Biobanks and Complex Data Management» opens immediate career opportunities with high responsibility in a variety of sectors such as human health, pharmaceutical and biotechnology industrial laboratories, and agricultural industry. This training of excellence will allow integrating French, European or international companies and academic institutions.”

Paul HOFMAN,
Director of the MSc in Biobanks and Complex Data Management (UCA IDEX Jedi).

The fast development of biobanking and the huge number of biobanks around the world create a high demand of experts in biobanking in the future.

To respond to this increasing necessity, «Biobanks and Complex Data Management» Professional Master of University Côte d’Azur (UCA IDEX Jedi) prepares graduates for high-level positions in biobanking with a strong emphasis on industrial, technological and international environment.

KEY FIGURES ABOUT BIOBANK

85
biological resource centers in France

2500
biobanks in the world

800
research teams provided with and working on biological samples in France

Yoshie ANDEE
Student class of 2016

“I decided to pursue my studies towards this Master Biobanks & Complex Data Management in 2016, which meets in my opinion all the criteria for an excellent training course with high-quality teaching, delivered in English and with 1 year professional experience in France or Internationally. This Master is very complete and balanced in competence and knowledge.

One of the axes of my 6-months internship in the LPCE Laboratory was the setting up of a new collection in the Biobank, a urine collection, and the drafting of a scientific article on this topic. The ultimate aim is to be able to detect resistant EGFR mutations in the urine of patients with lung cancer and to study and identify air pollutants present in the urine as potential peripheral biomarkers of higher risk for lung diseases onset. This topic will be the subject of a forthcoming publication and a poster has already been presented at the Global Biobank Week on September 2017 in Stockholm (Sweden).”

Medhi KARABORNI
Student class of 2016

“For my first internship in the field of biobanking, the Biobank of the University Hospital in Nice welcomed me for six months. The biobank is integrated in the Laboratory of Clinical and Experimental Pathology (LPCE) which is putting this structure in the center of the health care system. During my traineeship, I’m assigned to two projects. Initially, I was working on the establishment of a DNA collection stored at room temperature using a new technology of DNA encapsulation. Currently, I manage the duplication of this collection to two certified biobanks (NF S96-900 certification). In the context of sustainability, my second project aims to analyze the business plan of the biobank and to define potential areas of optimization.

In my opinion, working in a team, learning from each other while still being responsible for your own projects, are the key aspects contributing to my professional development. Having my name listed on a publication is the reward that I am looking for as recognition of my work.”

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A Unique European Professional Master linking Biobanking and Data Management

This Professional Master has the ambition to provide knowledge, experience, and practical skills that will qualify graduates of the Master for working into the multidisciplinary field of biobanking (humans, animals, plants, and other living organisms) and complex data management. The Master Biobank and Complex Data Management is being part of the international degree programs offered by the Université Côte d’Azur which emphasize excellence and innovative pedagogy. These are a new generation of training programs, which offer a master’s level degree, supported by the Initiative of Excellence (IDEX).

Key knowledge and skills

- Organization and implementation of biobanks at the national and international levels
- Quality management and risk management of biobanks
- Infrastructure of a biobank, budgeting and biobank sustainability or ‘Biobankonomic’
- Sample management and ethical, legal, and societal aspects of biobanking
- Management of complex data associated to biological samples
- European and International biobanking networks
- Professional development and marketing

First year (M1) 60 ECTS
- World of biobanking: Human Health & Agro-environment (5 ECTS)
- Quality in Biobanking (5 ECTS)
- Ethics, legislation & social issues (5 ECTS)
- Hygiene and Security (5 ECTS)
- Management and Project Management (5 ECTS)
- Technical expertise Biobank CHU de Nice (5 ECTS)

Second year (M2) 60 ECTS
- Economic model in biobanking (5 ECTS)
- Complex data management (5 ECTS)
- Biobanks and international networks (5 ECTS)
- Communication & Marketing (5 ECTS)
- Manage your future career (5 ECTS)
- Masterclass Biobanking (5 ECTS)

Hands-On Seminars (students oral session, SOS)
In pair working, students will dedicate themselves to group-based studies. They will be asked to defend their analysis of a concrete, current issue raised by a biobank. Their recommendations will be presented in front of faculty members.

Master’s Thesis
Students must write a master’s thesis to graduate from this program. It represents an important component of the Master’s learning experience. The objective of the thesis is to explore cutting-edge research implementation in daily practice within a highly competitive biobanking environment.

A Master which benefits from the UNIVERSITÉ CÔTE D’AZUR label and network
A 2 years Professional Master (UCA IDEX Jedi)
6 2 internships of months in Biobank
100% of courses in English
A wide network of International academic and industry partners
High teaching quality

2X 6 months internship in Biobank (60 ECTS)
Today, there is an international challenge in the harmonization of biobanking activities to guarantee data and sample qualities. Whole the international biobank networks, organizations and societies (including "infrastructure biobanks") as well as superregional biobanks need to be involved in it.

This is the reason why the Biobanks and Complex Data Management Master of Science of University Côte d’Azur (UCA IDEX Jedi) is integrated into an international cursus. In that way, the Master welcomes applications from candidates of all nationalities & students benefit from more than 45 experts and well known teachers, including:

**FRANCE**

- **Michele TIXIER-BOICHARD**
  PhD, DVM, Director of research at INRA, Jouy-en-Josas
  Coordinator of the CRB-Anim national infrastructure - UMR GAB

- **Jean-Louis PHAM**
  PhD, Research coordinator IIRD, Montpellier
  Plant geneticist Senior scientist

- **Dr. Loris G. BAGGETTO**
  Doctor of Science, PhD, MMed (Clin. Pathol.), CNRS, Lyon, Research Director and security manager

- **Christian CHABANNON**
  MD, PhD.
  Cell Biology at Aix-Marseille University School of Medicine.
  Board-certified in Hematology and Medical Oncology

- **Bruno CLÉMENT**
  Scientific Director of Infrastructure Biobank, Inserm, UMR 991 (“Liver, Metabolisms and Cancer”) University of Rennes 1, France

- **George DAGHER**
  PhD Deputy Director, Clinical Research Dpt, INSERM, Paris

**INDUSTRY PARTNERS**

- **Pascal PUCHOIS**
  MD, PhD.
  CEO, Trans-Hit Bio, one of the leading Biospecimen Procurement CRO Quebec

- **Robert HEWITT**
  PhD, Director, Biobank Consortia & Communication, Trans-Hit Bio, Quebec

- **Gilles ERB**
  PhD, in Medical Sciences, Oncology
  Scientific Lead in Breast, Gastric and Colorectal Cancer Roche
  Roche Diagnostics EMEA-LATAM (Europe, Middle East, Africa, Latin America)

- **Fabienne HERMITTE**
  PhD.
  VICE PRESIDENT Research & Development, MEDICAL & Regulatory Affairs, Executive Committee – HALLODDX

- **Cécile ROUANET-MEHOUAS**
  PhD, Project Manager Oncology Diagnostic, AstraZeneca, Paris

- **Philippe VAGLIO**
  PhD, Scientific Director - Modul-Bio France

- **Christophe GUITART ARNAU**
  Product manager, TECHNIDATA SAS, France

**INTERNATIONAL**

- **Robert HEWITT**
  PhD, Director, Biobank Consortia & Communication, Trans-Hit Bio, Quebec

- **Bill OLLIER**
  Co-director CEDMR (Centre for Integrated Genomic Medical Research) University of Manchester, United Kingdom
  Director of R&D Salford Royal NHS Foundation Trust

- **Martin YUILLE**
  PhD, MA
  Reader in Biobanking
  Co-Director Centre for Integrated Genomic Medical Research
  Honorary Principal Scientist, Salford Royal NHS Foundation Trust, United Kingdom

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  Head of the Molecular Histopathology Laboratory, Italy

- **Giorgio STANTA**
  Professor, Project Leader, Biobank Management
  MD, PhD.
  Research Director, Technical Director, Head of the Biobank Management.

- **Kurt ZATLOUKAL**
  Professor, University of Graz
  Head of the Biobank Management, University of Graz, Austria

- **Giorgio STANTA**
  Professor; Professor of Pathology at the University of Trieste
  Head of the Molecular Histopathology Laboratory, Italy

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  Research Director, Technical Director, Head of the Biobank Management.
A KEY ACCESS TO YOUR CAREER

Thanks to the program, graduates could access to positions with high responsibilities.

Some examples of job opportunities with the diploma of Biobanks and Complex Data Management professional master:

- Biobank Manager/Administrator
- Biobank quality Manager
- Logistics Manager/Administrator
- Data Manager
- Logistics Specialist
- Product Manager
- Scientific Adviser to public and private sector clients
- Hospital laboratories and biobanks
- Regulatory Specialist
- Technological Specialist
- Product Manager
- Scientific Adviser to public and private sector clients
- Logistics Analyst
- Data Manager
- Logistics Specialist
- Product Manager
- Scientific Adviser to public and private sector clients
- Hospital laboratories and biobanks
- Regulatory Specialist
- Technological Specialist
- Biobank Manager/Administrator
- Biobank quality Manager

ADMISSION PROCESS

The master is open to high-level graduates holding Bachelor degree +3 from an academic institution in the field of Life Sciences (biology, pharmacy, biotech etc.), who have interest in the field of biobanking or wish to specialize or broaden their professional knowledge in biobanking.

Applicants may apply in the same year they obtain their degree.

APPLICATION PROCESS

It is applying for students from French and international institutions:

The selection is a 2 phase process:

A first selection is made, based on the evaluation of your completed application form and supporting documents. Apply online at: https://ecandidat.univ-cotedazur.fr/Master/

Then, pre-selected applicants are invited to a face-to-face or Skype interview. They are encouraged to discuss their unique background, motivation, interests, and goals during this interview.

The Master welcomes applications from candidates of all nationalities who are fluent in English. A Language Certificate may be required. You are able to commit at least 6 months internship abroad (M1, M2 or both).


Application deadline no later than June 30th, each year.

Admission Results no later than September 10, each year.

After admission results, find the administrative application online at: http://unice.fr/formation/inscriptions

TUITION FEES

4000€ a year - The tuition fee may vary according to your residence status, namely if you are a resident of an EU country or of a country outside the EU.

In addition, financial aid (need-based or merit-based scholarships) will be available to students, and other sources of funding will also be available through each training course.
Contact Us

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Nice, France

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Partners

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