

Master Data Management in Biosciences

NATIONAL DEGREE OF MASTER OF SCIENCES ACCREDITED BY THE UNIVERSITY OF VALENCIENNES



MORE DETAILS

20

STUDENTS MAX. PER CLASS

50%

OF CLASSES DELIVERED BY INDUSTRY PROFESSIONALS

100%

OF CLASSES TAUGHT IN FNGLISH

ADVANTAGES





Apprenticeship open at Master 2 level



Mobility possible during S2 or M2



Diploma in Humanities including 3 certificates



Language Certificate (TOEIC)



Interdisciplinary curriculum



CONTACT

Farouk ALLOUCHE Academic coordinator farouk.allouche@univ-catholille.fr Our master's program aims at training high level professionals in the field of data in biosciences from data collection to data mining including quality control, splicing, statistical analysis, ... Students are also meant to have a strong human and ethical background. Through a multidisciplinary approach, a multicultural environment and professors from academia and industry, students have access to a multi-perspective approach to the field and the possibility to directly join the job market or to pursue their doctoral studies after graduation.



CANDIDATE PROFILE

MASTER 1

- Students who want to join a fast-growing sector and embrace a career combining biosciences, Big Data and the human-machine interface.
- Students holding a Bachelor in life sciences, computer sciences, health sciences or any other relevant/equivalent degree are welcomed to join our master program.
- B1 Level in English is mandatory.

MASTER 2

- Students who have validated an M1 in the domain or an equivalent curriculum.
- B2 level in English is Mandatory.

CAREER OPPORTUNITIES

- Biostatistician
- Bioinformatician
- DATA scientist
- DATA analyst
- DATA manager
- Project coordinator in health
- · Clinical assay coordinator

Plus de détails sur : www.fges.fr

EDUCATIONAL PROGRAM

MASTER 1 | SEMESTER 1 **ECTS** • Cellular and Molecular Biology of Diseases • Biostatistics 1 3 • Bioinformatics 1 4 • Databases 1 • Probability & Statistics 3 Languages 2 • Communication Tools/Dataviz • Project Management • Basics in Cellular and Molecular Biology • Algorithms •

MASTER 1 SEMESTER 2	
Course	ECTS
 Scientific method Biostatistics 2 Bioinformatics 2 Object Oriented Programming Data Structure and Complexity Databases 2 Regulations and Laws Languages Professionalization (internship) 2 pathways: research oriented or 	2 3 4 3 4 4 2 2
industry oriented	

■ For students from Computer Sciences background

• For students from Life and Health Sciences

MASTER 2 SEMESTER 1	
Introduction to translational research and clinical trials	3
 Advances in Biosciences - Seminars 1 	2
 Applied Biotechnologies 1 	3
 Operational tools for data management in biosciences 	4
 Introduction to AI & Machine Learning 	4
 Mechanisms of Data protection 	2
 Innovation Management 	3
European Environment and Policies in life sciences and public health	3
Responsible Research and Innovation	3
• Languages	3

MASTER 2 SEMESTER 2	
 Methodology of epidemiologic studies Advances in Biosciences - Seminars II Applied Biotechnologies II System and data management in bioscience Data Mining in Biosciences 	3 2 3 4
 Data Model - Big data Communication Techniques Languages Professionalization, 3 pathways: research internship, industry internship, apprenticeship 	3 2 3

TO KNOW: Fully taught in english. C1 Level in English expected at graduation.

