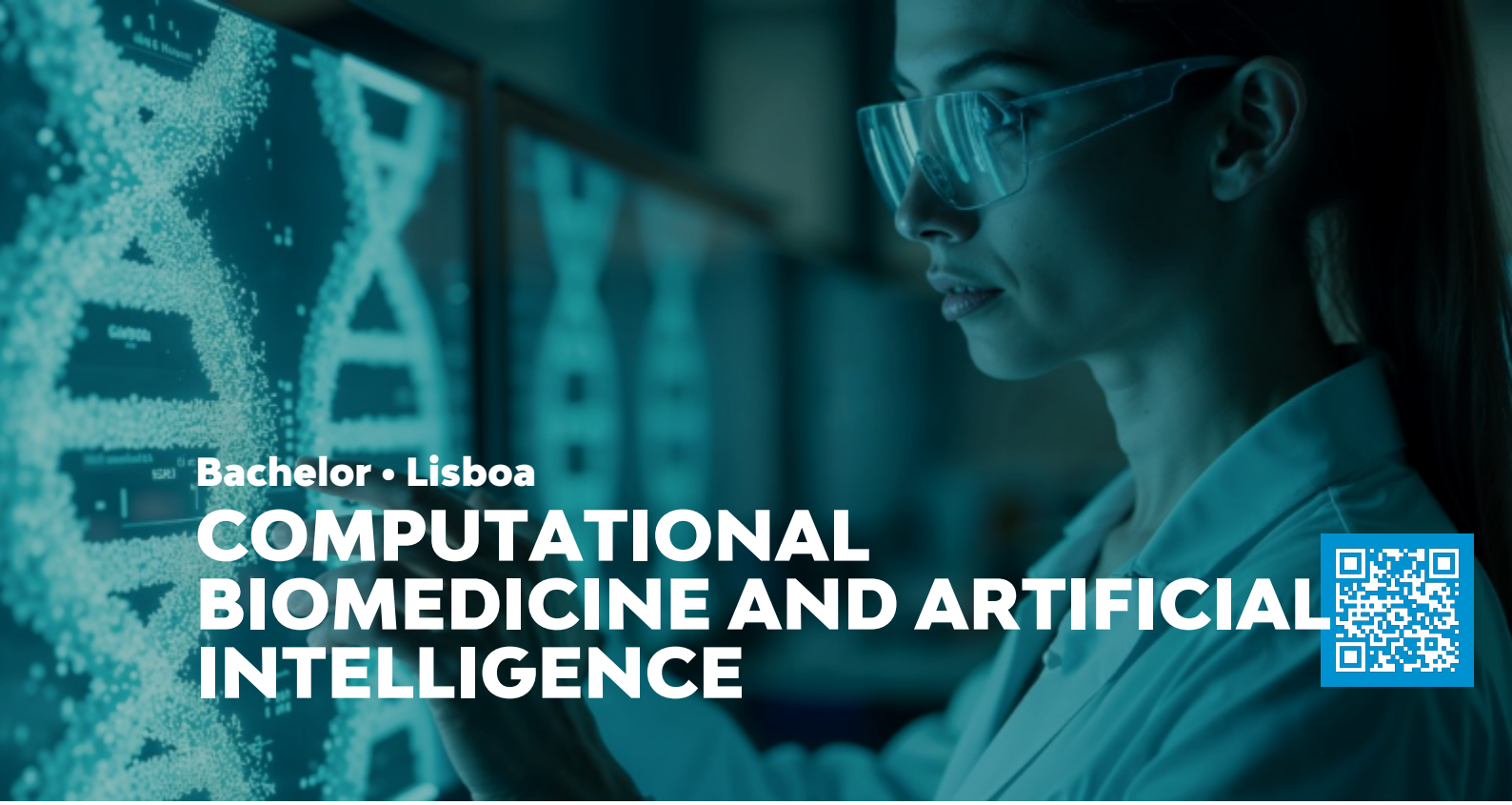

Bachelor • Lisboa

COMPUTATIONAL BIOMEDICINE AND ARTIFICIAL INTELLIGENCE

Direction

Tiago André Cunha Reis
p5880@ulusofona.pt

Secretariat

Natalia Raileanu
f5401@ulusofona.pt

Duration

3 Years

Credits

180 ects

Exams

Have one of the following sets:

- 02 Biologia e Geologia and 07 Física e Química
- 07 Física e Química and 16 Matemática
- 02 Biologia e Geologia and 16 Matemática
- 16 Matemática and 18 Português
- 02 Biologia e Geologia and 18 Português
- 07 Física e Química and 18 Português

Presentation

The Computational Biomedicine and Artificial Intelligence degree combines areas of Bioengineering, Medical Sciences and Computational Technologies, with an emphasis on practical application and innovation. This cycle of studies aims to train professionals capable of creating solutions that integrate artificial intelligence and data analysis in the diagnosis, prevention and treatment of diseases. Through an interdisciplinary approach and laboratory practices, students develop skills in programming, ethics, medical information management and in silico research, responding to the growing needs of the health sector and promoting the modernization of national and international health systems.

STUDY PLAN

1st Year / General path

1º Semestre	ects	2º Semestre	ects
Algebra	5	Calculus II	5
Calculus I	5	Clinical Biochemistry	5
Cellular and Molecular Biology	5	Genetics	5
General Chemistry	5	Introduction to Physical Chemistry	5
Human Anatomy	5	Nanotechnology	5
Programming for Biosciences I	5	Programming for Biosciences II	5

2nd Year / General path

1º Semestre	ects	2º Semestre	ects
Biomolecule Spectroscopy	6	Biosensors	5
Calculus III	5	Data Science for Healthcare	6
Medical Imaging I	7	Medical Imaging II	7
Operational Research	6	Medical Microbiology	6
Probabilities and Statistics	6	Networks and Computers	6

3rd Year / General path

1º Semestre	ects	2º Semestre	ects
Applied Project I	6	Applied Project II	6
Artificial Intelligence I	7	Artificial Intelligence II	7
Bioinformatics for Disease	6	Computational Biology	5
Cloud Computing	6	Computer vision	6
Optional	5	Neuroengineering	6