APPLICATIONS AND REQUIREMENTS

International candidates must have a Bachelor's degree in an Website engineering discipline or have an equivalent diploma. Ad- www.bionicsengineering.com equate knowledge of English is mandatory (B1 level).

Candidates must apply online at applymscenglish.unipi.it. Successful applicants must follow the University of Pisa's standard enrolment procedure.

More details at: www.unipi.it/enrolment.

ENROLMENT AND FEES

Enrolment instructions are available at matricolandosi.unipi.it/en.

Fees depend on the student's country of origin and vary from € 356 euros to € 2,452 for each academic year.

Information on fee waivers, extraordinary contribution and scholarships can be found at www.unipi.it/tuition-fees.

Study Programme Director

Prof. Luigi Landini luigi.landini@iet.unipi.it

Programme Coordinator and Welcome Officer Barbara Conte barbara.conte@unipi.it

General Information Prof. Giovanni Vozzi g.vozzi@ing.unipi.it

Dr. Leonardo Ricotti l.ricotti@sssup.it



www.unipi.it http://sssa.bioroboticsinstitute.it/















UNIVERSITÀ DI PISA

The University of Pisa (UNIPI) is a public institution composed of twenty departments, with high level research centres in the fields of agriculture, astrophysics, computer science, engineering, medicine and veterinary medicine. Established in 1343, UNIPI is one of the most prestigious Italian higher education institutions and a modern centre for teaching and advanced research.

SCUOLA SUPERIORE SANT'ANNA

The Scuola Superiore Sant'Anna di Studi Universitari e di Perfezionamento (SSSA) is a public university, with special autonomy, working in the field of applied sciences: Economics and Management, Law, Political Sciences, Agricultural Sciences and Plant Biotechnology, Medicine, and Industrial and Information Engineering. SSSA aims at pursuing excellence by experimenting with innovative methods in research and education.



Study at the Department of Information Engineering (UNIPI) and at the BioRobotics *Institute (SSSA)*

The Department of Information Engineering relevant expertise in the following areas: Biomedical Engineering, Electromagnetics, Electronics, Computer Engineering and Communications.

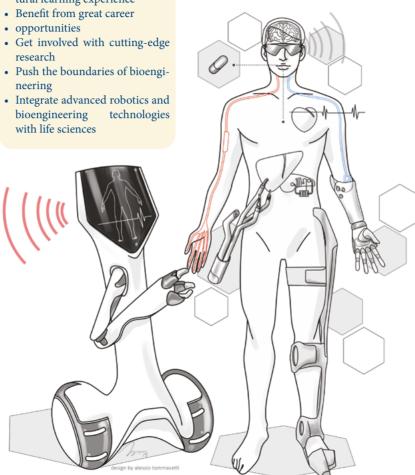
The BioRobotics Institute is at the forefront of advanced research in biorobotics and bioengineering.

It aims at furthering the knowledge of recent engineers graduates and supporting them in becoming scientists, inventors and entrepreneurs who areable to invent and solve problems, as well as to create new companies in high technological sectors, such as biomedical engineering, microengineering and robotics.

COME AND THRIVE

- · Enjoy a valuable and multicultural learning experience

- research
- neering
- Integrate advanced robotics and with life sciences



PROGRAMME OVERVIEW

FIRST YEAR	ECTS
Biomechanics of human motion	6
Statistical signal processing	6
Bioinspired computational methods	12
Applied Brain Science	12
Materials and instrumentation for bionics engineering	12
TOTAL	48
ELECTIVE COURSES	ECTS
Economic assessment of medical technologies and robotics for healthcare	6
Electronics for Bionics Engineering	6
Principles of Bionics Engineering	6
Mechanics of elastic solids and bio-robotic structures	6
Neuromorphic engineering	6
TOTAL	30
SECOND YEAR	ECTS
Lab Training	3
Final Examination	15
STUDENTS MAY CHOOSE ONE OF TWO TRACKS	
NEURAL ENGINEERING	
Social robotics and affective computing	12
Neural Prostheses	12
Bionic senses	6
Integrative cerebral function and image processing	12
TOTAL	42
BIOROBOTICS	
Human and animal models in biorobotics	6
Prosthetics and Rehabilitation robotics	12
Robotics for surgery and targeted therapy	12
	12
Robotics for Assisted Living	

Bionics is a new frontier of biomedical engineering. Our Bionics engineering programme aims at integrating robotics and bioengineering technologies with life sciences, such as medicine and neuroscience and materials science with the ultimate goal of inventing and deploying a new generation of biomimetic machines, human-centred healthcare and more generally assistive technologies.

PROFESSIONAL PROSPECTS

Our graduates develop strong interdisciplinary skills and learn how to use an approach which is oriented towards problem solving. By the end of the programme they will possess a high quality engineering curriculum attractive to many innovative industries based on biomedical engineering, on micro/ nano biotechnologies, and on advanced robotics.