

## PhD in Health Science, Technology and Management

### Overview

The PhD course in Health Science, Technology and Management (TeAM) concerns the theme of health and equity which is probably the most important challenge of humanity in the coming decades, in the intertwining with social, clinical, economic, technological, legal, political issues, managerial and environmental ones that testify to the rapid change in the needs of the world population, in the sign of the principles dictated by the Ottawa Charter for Health Promotion and in compliance with the criteria of the Sustainable Development Goals of the United Nations 2030 Agenda. The topic is that of the organization of the functioning of health systems (HS), characterized by complexity, interdisciplinarity and dynamism, requiring technological innovation and management skills to guarantee sustainability and adequate levels of care for citizens in every country and for every age.

The TeAM PhD is a true crossroad at Sant'Anna, being participated by all Institutes (Biorobotics, DIRPOLIS, Life Sciences, Management, Economics, Mechanical Intelligence, TECIP) testifying the global effort of the Institution.

The challenges to be faced are numerous and among these the ability of the HS to continuously be resilient in emergency health situations, as it is the case for the Covid-19 pandemic.



### Areas of study and research facilities

This course aims to train researchers and professionals with an interdisciplinary background including:

- Medical reasoning;
- Health care management;
- Ethics, Technology and Care Relationship;
- Information and Communication Technologies (ICT) enabling e-Health and Telemedicine;
- Introduction to Civil Liability and Risk Management in Healthcare Systems;
- Population health data to inform decision making;
- Introduction to Human Perception; from Ordinary to Mixed and Virtual Reality;
- Criminal issue;
- Introduction to Surgical Robotics;
- Principles of behavioral science in healthcare management;
- Introduction to digital perception and control in medical diagnosis applications;
- Introduction of Knowledge Transfer in STEM disciplines

PhD candidates are required to attend the mandatory courses of the first year. The training will continue on the field working

with the research teams of the Institutes in which he/she will be assigned.

### Job Opportunities

This course aims to provide an interdisciplinary background to the PhD student. Indeed, in addition to his/her academic background, this PhD introduces the student to other disciplines from both experimental and social sciences: medicine, engineering, economics, management, law. While the traditional PhDs focus on a single discipline, this PhD leads people to work in an interdisciplinary environment. This aspect is distinctive for conducting research on the edge as well as for offering a competitive advantage to candidates aiming to reach high level job positions in real life settings.

### Highlights

The main feature of this PhD is its inter- and multi-disciplinary approach. Candidates will learn the principles of many different disciplines directly from both the School faculty which will provide multiple complementary tools mandatory for analyzing the complexity of Health Science, declined as a modern multidisciplinary knowledge of the everchanging needs of individuals, populations, societies, as well as of the entire globe. The PhD course, beyond a multidisciplinary teaching programme, includes the opportunities of national and international internships thanks to the collaboration with professionals, academics and experts in Italy and abroad, the development of an experimental Research Project, with the final production of peer reviewed scientific deliveries.

### Info and contacts

info-phdteam@santannapisa.it

m.emdin@santannapisa.it

Phone: +39 050 882 608



Scan the QR code: more detailed information on the Programme and the call for admission