



PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 37th cycle

**Thematic Research Field: DIGITAL TRANSFORMATION OF HEALTHCARE: TOWARDS A
CONNECTED CARE MODEL**

Monthly net income of PhDscholarship (max 36 months)

€ 1400.0

In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity

Motivation and objectives of the research in this field

Digital technologies have not only a strategic role throughout the whole patient journey but also a strong potential to innovate the way healthcare services are provided. Healthcare systems are progressively shifting to connected care models in which the pervasive collection of data on patients allows supporting proper decision-making and pervasive collaboration in healthcare delivery. To fully implement the digital transformation of healthcare providers, however, it is necessary to identify correct investment priorities, adequate service models, proper data sharing mechanisms and new governance frameworks. This research aims identifying how to accelerate the digital transformation of healthcare providers towards a connected care model in which the disruptive potential of digital innovation is fully exploited.

Methods and techniques that will be developed and used to carry out the research

The following methodologies will be applied in the research project:

- Case studies, in order to analyse the best practices and identify their critical success factors;
- Analysis and reworking of secondary sources;
- Analytical models, in order to quantify the costs and the benefits of different solutions;
- Surveys, in order to monitor the adoption of digital solutions by hospitals, doctors and patients.

Educational objectives

The main educational objectives of the research project



	<p>are the following:</p> <ul style="list-style-type: none"> - Developing the capacity to elaborate qualitative and quantitative models through which supporting the digital transformation of the healthcare system; - Developing the capacity to support the stakeholder of the healthcare ecosystem in selecting the proper way of exploiting digital innovation, according to their features and objectives - Support the transition towards connected care models
Job opportunities	<p>The opportunities for a PhD graduate in this research area are:</p> <ul style="list-style-type: none"> - Academic career in the fields of digital innovation and healthcare management; - Advisory for those companies that have to accomplish digital innovation in the healthcare system; - Career as a civil servants (e.g., a senior-manager within a Public Hospital, Region, etc.).
Composition of the research group	<p>3 Full Professors 0 Associated Professors 1 Assistant Professors 0 PhD Students</p>
Name of the research directors	Luca Gastaldi e Mariano Corso

Contacts	
<p><i>Luca Gastaldi, luca.gastaldi@polimi.it, 02 2399 4046,</i> https://www.som.polimi.it/professor/gastaldi-luca <i>Mariano Corso, mariano.corso@polimi.it, 02 2399 2772,</i> https://www.som.polimi.it/professor/corso-mariano</p>	

Additional support - Financial aid per PhD student per year (gross amount)	
Housing - Foreign Students	--
Housing - Out-of-town residents (more than 80Km out of Milano)	--

Scholarship Increase for a period abroad	
Amount monthly	566.36 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information



The candidate will work at the Department of Management, Economics and Industrial Engineering and attend the PhD Courses and all the educational activities of the PhD Program in Management Engineering

Funding for educational activities: 1st year: 1200 euros per student, 2nd year: 1200 euros per student, 3rd year: 1200 euros per student.

Teaching assistantship: There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations.

Desk availability: shared use

Computer availability: individual use