

PhD In Mechanical Engineering

Research Area n. 2-Machine and Vehicle Design

Specific Research Subject: Sustainability of Intelligent
Transport Systems

Cluster Tecnologico Nazionale_Intelligent transport
system Italy 2020

Scholarships and Financial support	
Monthly net income of PhD scholarship (max 36 months)	€ 1200 (In case of a change of the welfare rates during the three-year period, the amount could be slightly modified)
Number of scholarships	1
Beginning of PhD	1/5/2015
Deadline for application	23/03/2015
Context of the research activity	
Motivations and objectives of the research in this field	Intelligent Transport Systems (ITS) need a substantial contribution from Mechanical Engineering. Actually smart sensors and/or numerical simulations of the physical behaviour of mechanical systems contribute to the assessment of the sustainability of ITS. www.mecc.polimi.it
Methods and techniques that will be developed and used to carry out the research	Design for X, signal processing, testing, numerical simulations of complex mechanical systems, man-machine interface are some of the skills that will be acquired by the PhD researcher.

Educational objectives	The PhD candidate will be enabled to perform breakthrough research in the ITS/Mechanical Engineering fields. Particular skills will refer to manage international scientific co-operations, team building and management, cooperations within funded research by public bodies. www.mecc.polimi.it
Job opportunities	Research team management in both public or private sectors.
Composition of the research group	Number of Full Professors 1. Number of Associated Professors 3. Number of Assistant Professors 3. Number of Post-Docs 2 Number of PhD students 4. Number of contracted researchers 4
Names of the research directors	Giampiero Mastinu Massimiliano Gobbi
E-mail address, phone number and web-page	gianpiero.mastinu@polimi.it massimiliano.gobbi@polimi.it
List of 5 Universities, Companies, Agencies and/or National or International Institutions that are cooperating in the research	1. Italian National Cluster of Mobility 2. Politecnico d Torino 3. e-mobil – Baden-Wuerttmeberg 4. Magneti Marelli 5. Brembo
Additional support	
<u>Funding for educational activities</u> (purchase of study books and material, funding for participation in courses, summer schools, workshops and conferences): financial aid per PhD student per year	2 nd year: 1.370 euro per student 3 rd year: 1.370 euro per student
<u>Teaching assistanship:</u> availability of funding in recognition of supporting teaching activities by the PhD student	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.
<u>Computer availability:</u>	1 st year: <i>individual use</i> 2 nd year: <i>individual use</i> 3 rd year: <i>individual use</i>
<u>Desk availability:</u>	1 st year: <i>individual use</i> 2 nd year: <i>individual use</i> 3 rd year: <i>individual use</i>