



POLITECNICO  
DI TORINO



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO



Dipartimento Interateneo di Scienze, Progetto e Politiche del Territorio



## Ph.D. Course in Urban and Regional Development

### Operational structures for research

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Thanks to the active involvement of the members of the Academic Board, the PhD Course makes available various **qualified scientific and operational structures for study and research activities** to students. In addition to libraries, databases and computer services available at the two universities, the following **research centres and scientific laboratories** (listed in alphabetical order) can be of specific usefulness for the PhD students:

Structure	Description	Referrals in the Academic Board
CED PPN Centro Europeo di Documentazione sulla Pianificazione dei Parchi Naturali / European Documentation Centre on Nature Park Planning	The Centre has been set up (1994) to promote knowledge and debate on Nature Park, Protected Area and Landscape planning and management policies, with reference to the European and international context; member since 1996 of the IUCN. Activities: multi-annual research, gathering and updating a documentary archive, developing cultural and training activities, consultation service. The Centre is availing itself of an international research and institutional network on Natural and Cultural Heritage. <a href="http://www.cedppn.polito.it">http://www.cedppn.polito.it</a> <a href="http://www.dist.polito.it/la_ricerca/centri_di_ricerca/ced_ppn">http://www.dist.polito.it/la_ricerca/centri_di_ricerca/ced_ppn</a>	Brunetta, Cassatella, Voghera
EU-POLIS Centro di ricerca sugli studi in Europa e nel Mediterraneo / Research Centre on Urban Studies	Since 1999 EU-POLIS has been established to answer to the need of research on urban and territorial transformations and on current development processes. Main objectives of the research centre are to provide useful insights to policy- and decision-makers, and to contribute to disseminate a place-oriented approach in the definition of territorial policies. <a href="http://www.dist.polito.it/en/research/research_centres/eu_polis">http://www.dist.polito.it/en/research/research_centres/eu_polis</a>	Santangelo (director), Armao, Bonavero, Caruso, Cotella, Crivello, Giaccaria, Governa, Janin Rivolin, Rossi, Rossignolo, Salone, Staricco
FULL Future <i>Urban Legacy</i> Lab	FULL is an interdepartmental center founded by researchers from seven Departments of Polito. FULL mission is to study the main challenges opened by a rapidly urbanizing world, focusing on how the physical form and design of cities impacts on society, culture and the environment. Research activities are based on cross-interdisciplinary methods, collaboration and experimentation, internalization and comparison, analysis and design, theory and practice. <a href="http://urbanlegacylab.net/">http://urbanlegacylab.net/</a>	Buzzacchi, Governa

Structure	Description	Referrals in the Academic Board
GEOLOGIA APPLICATA E IDROGEOLOGIA Laboratorio di Cartografia tematica e Idrogeologia applicata / Thematic Cartography and Applied Hydrogeology Lab	At the Laboratory of Thematic Cartography and Applied Hydrogeology, research is carried out on the geomorphological and geological structure of the territory through the photointerpretation (disrupted areas, source feeding areas) and Hydrogeology. <a href="http://www.diat.polito.it/en/the_department/internal_structures/laboratories/thematic_cartography_and_applied_hydrogeology">http://www.diat.polito.it/en/the_department/internal_structures/laboratories/thematic_cartography_and_applied_hydrogeology</a>	De Maio, Lo Russo, Vigna
GEOMATICA Laboratorio di Fotogrammetria, Geomatica e GIS / Photogrammetry, Geomatic and GIS Lab	Its mission takes care of the scientific, teaching and training activity in the following fields: physical, geometric and spatial geodesy, topography, aerial and terrestrial photogrammetry, cartography, remote sensing, web surfing and geographic information systems and GIS. The scientific-disciplinary contents concern the acquisition, processing, restitution, analysis and management of metric or thematic data, concerning the Earth's surface or portions, including the urban environment, infrastructures and the Architectural heritage, identified from their spatial position and qualified by survey accuracy. <a href="https://areeweb.polito.it/geomatics_lab/en/">https://areeweb.polito.it/geomatics_lab/en/</a>	Lingua (referral), Bellone, Manzino, Piras
ITHACA Information Technology for Humanitarian Assistance, Cooperation and Action	The non-profit association ITHACA, based in Torino, Italy, is a center of applied research devoted to support humanitarian activities in response to natural disasters by means of remote sensing techniques. <a href="http://www.ithacaweb.org">http://www.ithacaweb.org</a>	Boccardo (director)
LABFLUX Laboratorio per la valutazione dell'umidità nei mezzi porosi e dei flussi d'acqua nell'ambiente / Porous Media Moisture and Environmental Water Fluxes Evaluation Laboratory	The Lab performs research, tutorial ad dissemination regarding measurements and modeling of water and moisture fluxes in the natural, agricultural and built environments. Main focus is on porous media like soil, snow and wood. Specifically addressed are the monitoring of: meteorological variables, energy fluxes, soil-plant-atmosphere interactions, water dynamics, and hillslope processes. <a href="http://www.dist.polito.it/en/the_department/laboratory/labflux">http://www.dist.polito.it/en/the_department/laboratory/labflux</a>	Ferraris (director), Canone
LARTU Laboratorio di Analisi e Rappresentazioni Territoriali e Urbane / Laboratory of Territorial and Urban Research	This laboratory supports research on urban and territorial analysis, planning and evaluation of environmental impact and on the use of GIS. Furthermore, it plays an active role in Department's contracts and conventions. It has cartographic material and statistic documentation both on paper and magnetic support along with data processing instruments, including some instruments to process cartographic data. <a href="http://www.lartu.polito.it">http://www.lartu.polito.it</a> <a href="http://www.dist.polito.it/en/the_department/laboratory/lartu">http://www.dist.polito.it/en/the_department/laboratory/lartu</a>	
R3C Responsible Risk Resilience Interdepartmental Centre	R3C aims at studying territorial challenges to enhance the resilient transition of urban systems. R3C experiments an interdisciplinary research methodology to support cities to achieve the Goal 11 "Sustainable Cities and Communities" and the Goal 13 "Climate Action" of the 2030 United Nations Agenda. <a href="http://r3c.polito.it">http://r3c.polito.it</a>	Brunetta (project manager), Canone, Ferraris, Staricco, Tiepolo, Voghera

Structure	Description	Referrals in the Academic Board
SiTI Istituto Superiore sui Sistemi Territoriali per l'Innovazione / Higher Institute on Territorial Systems for Innovation	Its activities are focused in the following sectors: Logistics and transport, Environmental heritage and urban redevelopment, Environmental protection, engaging the help of numerous researchers who complete the various specialist skills available within the Politecnico di Torino, the Universities and other research centres. <a href="http://www.siti.polito.it">http://www.siti.polito.it</a>	Armao, Boccardo, Lombardi
S3+ LAB Urban Sustainability & Security Laboratory For Social Challenges	The laboratory S3 + LAB aims to integrate and make the system different skills, tools, equipment, existing and operating in different departments involved so that it is possible for the Turin Polytechnic respond fully to the social challenges in the field of economic development and territorial competitiveness. <a href="http://www.dist.polito.it/en/the_department/laboratory/s3_lab">http://www.dist.polito.it/en/the_department/laboratory/s3_lab</a>	Lombardi (scientific coordinator), Armao, Boccardo, Lingua, Voghera
TURLAB TURbulence LABoratory	The TURbulence LABoratory of the Dept. of Physics is devoted to experimental measurements of turbulent parameters and hosts one of the largest rotating platforms available (5 m of internal diameter) for scientific investigations of turbulence in presence of rotation and/or stratification. <a href="http://www.turlab.ph.unito.it/">http://www.turlab.ph.unito.it/</a>	Cassardo
URMET LAB Urban meteorological stations laboratory	Laboratory that manages the scientific and technical components of the meteorological station installed on the roof of the Dept. of Physics, and that manages the field experiments <a href="http://www.meteo.dfg.unito.it/">http://www.meteo.dfg.unito.it/</a>	Cassardo
WHCC World Habitat Cooperation Center	WHCC was born in 2012 with the aim to promote, organize and carry out cooperation activities, research and training with disciplinary and interdisciplinary perspectives. The fields of interest are habitat, design, planning and territorial development. WHCC works internationally with a specific attention to the Global South. The Center joins scholars of different disciplines: from social sciences to spatial planning, from agronomy to habitat technologies. <a href="http://www.dist.polito.it/en/research/research_centres/whcc">http://www.dist.polito.it/en/research/research_centres/whcc</a>	Armao (referral), Bocco, Lombardi, Pezzoli, Tiepolo