



PhD in INGEGNERIA AMBIENTALE E DELLE INFRASTRUTTURE / ENVIRONMENTAL AND INFRASTRUCTURE ENGINEERING - 37th cycle

Research Area n. 1 - Water Science and Engineering

**THEMATIC Research Field: PROGETTO INNOVAZIONE POLIMI - REGIONE LOMBARDIA:
HYDRO-METEREOLOGICAL PROCESSES INTERACTION FOR REAL-TIME FLOOD
FORECASTING**

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	<p>This research addresses the challenges that public administrations are facing in the digital era that was accelerated by the COVID-19 events.</p> <p>The PhD will contribute to renew competences and instruments with the final goal to improve public administration governance and management.</p> <p>The research will concern the analysis of meteorological and hydrological processes and their mutual interaction.</p>
Methods and techniques that will be developed and used to carry out the research	<p>The research will be conducted in collaboration with the Regione Lombardia Directorate on Civil Protection.</p> <p>The research will use scientific instrumentation and modeling technologies applied to a decision support system for flood risk management.</p>
Educational objectives	<p>The project will provide candidate with: knowledge of the sector in which they develop the research project; methodological competences at both the theoretical and applied level; capabilities to interact with people of diverse background; problem setting and solving capabilities.</p>
Job opportunities	Academy



	Civil Protection Agencies Applied weather forecast enterprises River Basin Authorities
Composition of the research group	1 Full Professors 0 Associated Professors 4 Assistant Professors 2 PhD Students
Name of the research directors	Marco Mancini and a Regione Lombardia tutor

Contacts	
Contact of Politecnico di Milano research director:	
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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
<p><u>Educational activities</u> (purchase of study books and material, funding for participation to courses, summer schools, workshops and conferences): financial aid per PhD student per 2nd and 3rd year: max 1534,33 euros per student per year on average.</p> <p><u>Teaching assistantship</u> (availability of funding in recognition of support to 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. Increase in the scholarship for stays abroad: 566,36 euros per month, for up to 6 months.</p> <p><u>Computer availability and desk availability</u>: 1st year + 2nd year + 3rd year: individual use.</p>