



PhD in SCIENCE, TECHNOLOGY AND POLICY FOR SUSTAINABLE CHANGE - 40th cycle

THEMATIC Research Field: LIFE CYCLE ASSESSMENT OF BUILDINGS, BENCHMARKS AND POLICY IMPROVEMENTS

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

<p>Motivation and objectives of the research in this field</p>	<p>The adoption of criteria, methods and metrics for assessing the sustainability of buildings in a Life Cycle (LC) perspective, i.e. by adopting Life Cycle Assessment (LCA) methodology, is internationally recognized as necessary to define effective ecological transition actions, estimate their effects and monitor results. The research program addresses to enhance the policy effectiveness regarding the built environment sustainability, through the implementation of methodological guidelines, assessment-verification-monitoring procedures and reference benchmarks/targets, based on LCA methods, to be applied into policies related to buildings.</p>
<p>Methods and techniques that will be developed and used to carry out the research</p>	<p>Use of LCA tools, databases with digitized LCA and EPD inventories and parametric LCA data in relation to different technological repertoires with the identification of LCA benchmark/target at the building scale and in relation to the different building parts and life cycle phases by modelling statistical data on a national and regional basis.</p>
<p>Educational objectives</p>	<p>Dealing with sustainability, PhD Candidates will apply an interdisciplinary approach and develop communication and networking skills. The research need a cooperative environment among different disciplines and a strong relationship with stakeholders, trying to overcome barriers and opportunities (research on field).</p>



Job opportunities	Life Cycle Assessment expertise is an increasingly required professional profile, especially in the building sector, due to the growing demand by policies instruments. In addition, the doctoral research will allow the acquisition of skills with respect to decision-making processes in the public sector, opening up job opportunities also with PAs.
Composition of the research group	1 Full Professors 1 Associated Professors 2 Assistant Professors 2 PhD Students
Name of the research directors	Prof. Andrea Campioli; Prof. Monica Lavagna

Contacts
andrea.campioli@polimi.it monica.lavagna@polimi.it

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	700.0 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<ul style="list-style-type: none"> •educational activity: in addition to the doctoral courses, it will be possible to participate in the courses organized by the research group in relation to the topics of sustainability, circularity and LCA of buildings •teaching assistantship: the doctoral student may be involved as an tutor in the teachers' courses, compatibly with the development of the research activity •desk availability, compatibly with the research group spaces, will be guaranteed