



POLITECNICO
MILANO 1863

DIPARTIMENTO DI
INGEGNERIA GESTIONALE

DIG PhD scholarship

Title	The role of Operational Excellence Approaches for sustainability
Theme	<p>In the last years, more and more attention has been devoted to sustainability. Operations is the area of the company that has the greatest impact on sustainability due to its intense use of resources (energy, material, water) and people. A large portion of resources is wasted in processes (e.g. 17% of food produced every year in the world is wasted). Operational excellence methods and tools are extremely effective in addressing waste. Therefore it is extremely interesting to research how such tools can be used to increase Company's sustainability</p> <p>The research aims to define frameworks and tools to:</p> <ul style="list-style-type: none">- Analyse the impact of processes (in particular Operations processes) on Sustainability (People, Profit, Planet);- Identify improvement opportunities;- Guide improvement actions. <p>The following methodologies will be applied in the research project:</p> <ul style="list-style-type: none">- Literature analysis in order to map the situation of research at international level;- Case studies, in order to analyse the best practices of problem solving and innovation management of companies that have already developed new good practices;- Action research projects to work on tools for process analysis in order to identify improvement opportunities.
DIG professors involved	Alberto Portioli, Matteo Rossini, Federica Costa
International collaborations	Universidad Politecnica de Madrid (Spain), University of Melbourne (Australia), University of Cardiff (UK)