



OPEN TALK

Luca Amerio is a Wind Engineering Consultant at Arup, part of the Technical Services Portfolio

“I have Ph.D. in Mechanical Engineering”

May 12th, 2022
18:00 - 19:15 pm

Only in remote at:

<https://politecnicomilano.webex.com/meet/andrea.manes>

Abstract

The PhD programs started at Politecnico di Milano in 1984; to this date, more than 4000 PhD titles have been awarded by the university, in disciplines of engineering, architecture, and design.

The PhD degree is the highest level of university education, aimed at developing abilities of PhD candidates through training and research, as well as promoting new entrepreneurial skills. This results in a research thesis with original contributions, enabling them to take up research activities in research centers in universities and in industrial settings.

Mechanical Engineering is one of the leading and driving sectors of industrial manufacturing in Italy.

Within this scenario, pursuing a Doctoral Degree in Mechanical Engineering at Politecnico di Milano represents a key instrument to access leader enterprises in one of the most profitable sectors worldwide; it is a steppingstone to prominent positions in national and international firms devoted to research and development, innovation and design.

Aim of these open talks is to show the value of the PhD degree in an industrial context, through testimonies by individuals who have chosen to pursue a Doctoral Degree in Mechanical Engineering and now, thanks to this, have a significant and stimulating job position in industrial settings.

Speaker short CV

Luca Amerio is a Wind Engineering Consultant at Arup, part of the Technical Services Portfolio. He graduated from Politecnico di Milano with a Master's Degree in Structural Engineering in 2014. During the preparation of the Master's Thesis, he spent three months in Japan at the Tamura Lab at the Tokyo Institute of Technology to investigate the use of Computational Fluid Dynamics to reproduce Wind Tunnel experiments. In 2017 he earned the Ph.D. cum laude in Mechanical Engineering at Politecnico di Milano. During his Ph.D., his research was focused on the characterisation of wind-induced pressure fields on high-rise buildings and how to correctly characterize the cladding design wind pressure using wind tunnel data. During this time, alongside his research, he worked on several commercial wind tunnel tests, including high-rise buildings, stadia, and bridges.

In 2017 he joined Arup in the Advanced Technology & Research group (today rebranded Technical Service Portfolio) as part of the Wind Team lead by Andrew Allsop. In his time at Arup, he worked as Wind Engineering Consultant, bridging the needs of the Building Engineering groups with technical solutions using Wind Tunnel tests and CFD. He took part in several landmark projects such as the new Gerald Desmond Bridge in California, the Kai Tak Sports Park in Hong Kong, and the Brienenoord Bridge in the Netherlands, as well in pro-bono projects such as the drafting of the UN guidelines for wind-resilient shelters for the Cox Bazar refugee camp in Bangladesh – the largest refugee camp in the world.

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