





## **OPEN TALK**

Jannis Lemke is a research and innovation scientist at SAES Getters S.p.A in Lainate, Italy.

## "I have Ph.D. in Mechanical Engineering"

November 24<sup>th</sup>, 2021 18:00 - 19:15 pm

Only in remote at:

https://politecnico milano.webex.com /meet/maurizio.ved ani

## **Abstract**

The PhD programs started at Politecnico di Milano in 1984; to this date, more that 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

Jannis Lemke works as a research and innovation scientist at SAES Getters S.p.A in Lainate since January 2017. There, he is member of the innovative alloys laboratory, which has the scope to develop functional alloys for industrial and medical applications. In his role, he focuses on preparation, tailoring, optimization and characterization of functional metallic materials from the melt to semi-finished products. His expertise lies in metallurgy, shape memory alloys, heat treatments, processing, metal additive manufacturing and materials characterization.

Originally, from Kiel, Germany, he gained his first working experiences at Dräger Safety AG (Lübeck) and Sartori und Berger (Kiel). After winning a PROMOS scholarship in 2011, he went for one year as an exchange student to the University of Milano Bicocca. He graduated in Materials Science and engineering in 2013 at the CAU Kiel, with a thesis on thin films entitled "Effect of substrate clamping on the magneto-elastic coupling coefficient". In 2017 he obtained the Doctor of Philosophy in mechanical engineering at the Politecnico di Milano with a thesis entitled "Development of Iron-based Alloys for Innovative Powder Metallurgy Processes", characterizing alloys prepared by spin-coating and additive manufacturing processes.

During his entire career, he participated actively with great passion in scientific dissemination, he is a regular presenter at scientific conferences, published more than 20 peer-reviewed scientific papers, is author of two patents, won the Premio Aldo Daccò in 2015 for an industrial research project and continues to contribute in several scientific events.

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