The Lowcomote project led by IMT Atlantique selected in the context of the European H2020 Marie Curie ITN call

Lowcomote is a software engineering training program designed to prepare a new generation of software engineers, experts in building low-code development platforms hosted on the Cloud. The proposal formulated by Massimo TISI - Associate Professor at IMT Atlantique and, member of the Automation, Production and Information Technology Department (DAPI), member of the NaoMod team of the LS2N laboratory and scientific coordinator of the programme - is part of the 7% of projects selected for funding from over 1400 proposals received.

Marie Curie Innovative Training Network is a call for projects developed as part of the European Research and Innovation Strategy Horizon 2020. The objective is to propose programs of hybrid training and research of excellence exposing doctoral candidates to both the academic environment as well as the industrial environment. This approach aims to train experts able of operating in different countries and sectors of activity and to fuel their open mindedness to convert knowledge and ideas into products and innovative services for economic and social benefit.

The development of applications without writing computer programs is a long-standing objective of research in software engineering. To achieve this, Lowcomote proposes new platforms for software development hosted on the Cloud. By leveraging machine-learning techniques, these platforms will assist domain experts in building complete applications without the need for in-depth programming knowledge. "A much awaited evolution at a time when the Internet of Things is exploding and everything is becoming an application", says Massimo Tisi. Relying on the expertise of IMT Atlantique within the LS2N in Model-Driven Engineering, Lowcomote intends to remove the limitations that currently hamper the applicability of these software development platforms: difficulty in scaling up for the construction of large applications, fragmentation of the platforms, and lack of support for the heterogeneity of engineering applications.

Lowcomote "Training the Next Generation of Experts in Scalable Low-Code Engineering Platforms" brings together 14 partners, 5 universities and 8 industrial players from 7 European countries. The project benefits from a financing of more than 4M€ and will host 15 doctoral students..

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About IMT Atlantique Bretagne-Pays de la Loire

IMT Atlantique is a grande école generalist engineering school (ranked in the A+ group of the top ten schools in the French magazine L'Etudiant ranking), and internationally recognised for its research (placed in four categories of the ShanghaiRanking). It is part of the Institut Mines-Télécom and is administered by the Ministry of Industry and Digital Affairs.

With campuses in Brest, Nantes and Rennes, and one incubator present on the three campuses, as well as a site in Toulouse, the vision of IMT Atlantique is to bring together digital technology, energy and the environment to transform society and industry through training, research and innovation, and to be the leading French institution of higher education and research working in this sector on the international scene.

From September 2018, IMT Atlantique boasts a new generalist engineering course. Students are recruited through the Mines-Ponts competitive entry exam. The school also offers two engineering degrees by apprenticeship, master's degrees, specialist master's degrees and doctorates.

IMT Atlantique's programme is built on cutting-edge research carried out in six joint research units under its trusteeship: The Laboratory for Process Engineering for Environment and Food (GEPEA), the Research Institute of Computer Science and Random Systems (IRISA), the Laboratory of Medical Information Processing (LATIM), Laboratory of communication science and technology (LABSTICC), the Nantes Laboratory of Digital Sciences (LS2N) and the Laboratory of Subatomic Physics and Related Technologies (SUBATECH) (with the French National Centre for Scientific Research (CNRS), the French Institute for Research in Computer Science (INRIA), the French National Institute of Health and Medical Research (INSERM), universities or engineering schools). The school draws on its research excellence in its flagship areas (energy and digital technology; cybersecurity; the environment and digital technology; industry of the future; nuclear technology; health and digital technology; and risks and interactions) coupled with scientific disciplines in order to meet the challenges of tomorrow: digital transition, environmental transition, industrial transition, energy transition, healthcare of the future and primary research. The school is a member of the Carnot M.I.N.E.S Institute (Innovative Methods for Business and Society), the Carnot TSN Institute (Telecom and Digital Society) and founding member of the Université Bretagne Loire consortium of universities and higher education institutions.

For more information http://www.imt-atlantique.fr/