

/ INTERNATIONAL POST-MASTER'S SPECIALISATION DIPLOMA /

# The MDE Diploma

## Model Driven Engineering for Software Management

AWARDED BY THE FRENCH MINISTRY OF INDUSTRY



ECOLE DES MINES DE NANTES  
FRANCE

# The MDE Diploma

**A Comprehensive Course on Advanced Software Production, Operation, and Maintenance based on Model Driven Engineering.**

The MDE International post-master's specialisation Diploma in Model Driven Engineering (MDE) for Software Management offered by Ecole des Mines de Nantes trains engineers to manage complex projects in various IT fields with the latest cutting-edge modeling technologies.

## / MDE CHALLENGES /

Model Driven Engineering (MDE) is changing the way we build, we operate, and we maintain our software-intensive systems. Software models are being increasingly used in most areas of computer science. They allow working at a higher abstraction level and generating the executable programming code only at final implementation stages. MDE provides a new conceptual framework and a set of tools to separate and to combine the multiple aspects and views present in modern complex systems. Several projects using MDE practices are reporting significant improvements in quality and performance. But the technical and human skills necessary to handle these projects are currently not widely available. This diploma intends to contribute filling this gap.

## / JOBS FOR TOMORROW AND THE FUTURE /

- The MDE Diploma provides the opportunity to develop specialist in Model Engineering, a key growth area in the information and communication technologies in a number of industries like bank and financial companies, government agencies, software houses, software editors, public and private research labs.
- The MDE curriculum has a close relationship with the real world through strong partnerships with industry. Students who excel in the Diploma will be offered design, development, or research project opportunities with industry partners. Examples of potential career opportunities in these companies are: software engineers with specialized expertise in model engineering, research and development engineers in national or international projects, enterprise architects, software configuration managers, requirements analysts, team leaders in new technology projects, development managers involved in information system modernization and migration

