

Marie Skłodowska-Curie
Actions Doctoral Network

Motorised
Nanomachines
Fundamentals
Innovations
Applications



**REACHING NEW HEIGHTS
IN THE EMERGING FIELD OF
ARTIFICIAL MOLECULAR MACHINES**



MonaLisa is a Doctoral Network of leading scientists, world-class institutions, training partners and several industries from all over Europe and beyond. The project aims at reaching new heights in the fascinating field of molecular machines, and to train a new generation of outstanding researchers capable of conducting visionary research for tomorrow's applications.

PUSH SCIENTIFIC BOUNDARIES FURTHER

The MonaLisa consortium on motorised molecular machines will reveal the unknown by leveraging the capabilities and joint workforce of top-notch research centres and companies in order to further develop EU research and education structures. It has the ambition to train a new generation of visionary researchers capable of conducting high gain, high risk research. The involved curiosity-driven Doctoral Candidates (DCs) will be systematically trained by insightful teachers and guided by internationally renowned researchers (notably including 3 Nobel Prize Laureates) with the aim to create an entirely new knowledge basis with the current frontiers of science.

FROM ACADEMIC KNOWLEDGE TO FUTURE APPLICATIONS

MonaLisa will also lift the field of molecular machines into the next application level through the strong involvement of leading companies and to pave the way for the design of entirely new products and materials of high societal impact. This extensive, in-depth training from expert researchers will enable the candidates to gain a deep understanding of the field and transform their findings into innovative solutions.

IN A NUTSHELL



4
years



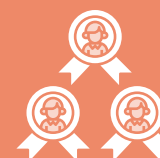
2024 / 2028



7 Academic laboratories
6 Training partners
8 Industrial partners



€4.05
million
Grant amount



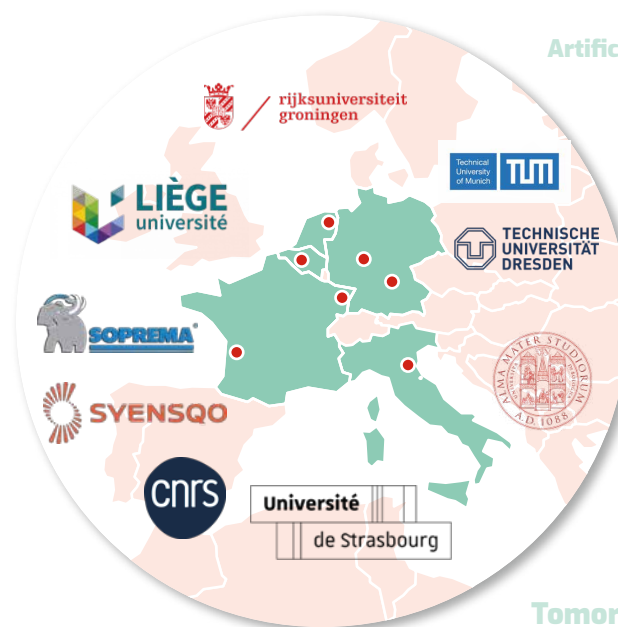
3
Nobel Laureates
involved



15
Doctoral
Candidates



BENEFICIARIES



Artificial Molecular Machines

Innovation

Training

Industrial Secondments

Research

Chemistry

Cooperation

Scientific Excellence

Complex Systems

Leadership

Smart Materials

Tomorrow's Technologies

PARTNERS

ACADEMIC PARTNERS

- › National Research Scientific Council CNRS (FR)
- › University of Strasbourg (FR)
- › University of Groningen (NL)
- › University of Bologna (IT)
- › Technical University of Munich (DE)
- › Technical University of Dresden (DE)
- › University of Liège (BE)

INDUSTRIAL PARTNERS

- › Soprema (FR)
- › Syensqo (FR)
- › Merck (IE)
- › Orgentis (DE)
- › Xeltis (NL)
- › Clariant (CH)

TRAINING PARTNERS

- › Springer Nature (DE)
- › Wiley-VCH (DE)
- › Desca (US)
- › Foresight Institute (US)
- › Oriensys (FR)
- › EuChemS (BE)
- › University of Bordeaux (FR)
- › Laboratory of the future (FR)



This project has received funding from the European Union's Horizon Europe research and innovation programme under the Marie Skłodowska-Curie grant agreement N° 101169136

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