

FORMATION CONTINUE

NATURE INSPIRED DESIGN
MASTER OF SCIENCE IN BIOMIMICRY TO
ADDRESS A CHANGING WORLD
N.I.D.

NATURE-INSPIRED DESIGN (N.I.D)

MASTER OF SCIENCE IN BIOMIMICRY TO ADDRESS A CHANGING WORLD

ENSCI-LES ATELIERS // FORMATION CONTINUE

Nature efficiently manages / processes / optimizes / transforms / builds / manufactures matter, energy or information at different levels - micro, macro and ecosystem scale - thanks to efficient mechanisms, strategies and behaviours. Therein, Nature could prove to be an inspiring and powerful model of inventiveness as well as a mature technology we could use to build more sustainable and desirable futures.

To do so, modern knowledge in life science, when associated with new / emerging techniques, technologies and practices, will help students address contemporary issues in such fields as environment, materials, energy, health, habitat, consumer products, etc. through design and biology. The aim of the MS Nature Inspired Design is to give students deep knowledge, efficient tools and innovative methodologies to explore and to use multiscale Nature's incredible principles / mechanisms / strategies in their own practice. Through an immersive learning experience, hands-on and practical training over the course of 18 months, including a 4 month mission in a company, students will learn how to develop ground-breaking bio-inspired / bio-based innovative solutions in the fields of science, technology, engineering, design, arts, architecture and society.

In short, MS Nature Inspired Design students will be involved in designing innovative bio-inspired / bio-based solutions in order to face contemporary issues ; reinventing their own professional practice by using Nature as an inspiration, material or process. Highly motivated, open-minded professionals who are fascinated by Nature professionals from all around the world, this course is meant for you

LEARNING OBJECTIVES

Demonstrate advanced nature inspired design knowledge and skills in :

- | | |
|---------------------------------|------------------------|
| -Biomimicry and bio-inspiration | -Green technologies |
| -Design project management | -Circular economy |
| -Design tools | -Innovation and jugaad |
| -Ecodesign practices | -Sustainability |
| -Emerging technologies | -Ethics and law |

EDUCATIONAL LEADER



Guillian Graves
He is an industrial designer and a biodesigner. He heads the Big Bang Project, a Parisian studio at the cutting edge of socially-responsible design, science, and technology. Working closely with an interdisciplinary community of researchers and engineers, BBP specializes in the design of the products and services of tomorrow, research and teaching.

Graves also gives talks and leads workshops for industrial and academic audiences. In addition, he teaches at the ENSCI-Les Ateliers, where he directs the Design and Biology research program, he is board member of the biohacker space La Paillasse and is design instructor of the Institut Pasteur's iGEM team. Additional information can be found at www.bigbang-project.com

PARTNERS

CEEBIOS (ceebios.com)
& Institut des Futurs Souhaitables (futurs-souhaitables.org)



Ceebios



PUBLIC

-Engineers, designers, architects, scientists, project managers and entrepreneurs

-Required level : Bachelor, M1, or Licence + professional experience

LANGUAGE

Language of instruction is English

OPENING TIME

January 2020

DURATION

18 months, block release training

PLACE

ENSCI-Les Ateliers (French National Institute for Advanced Studies in Industrial Design)
48 rue Saint Sabin, 75011 Paris, France

COST

for individuals : 12 000 euros net
for companies : 18 000 euros net
Extra cost for a 10 days immersive learning expedition :
5 000 euros net
Price may be subject to change

CONTACT

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L'ENSCI-LES ATELIERS



ENSCI-Les Ateliers : Born of a political will in 1982, the École Nationale Supérieure de Creation Industrielle (ENSCI - Les Ateliers) is the only national school exclusively devoted to industrial creation and design.

It was at that moment we began breaking with academic models by placing creation at the heart of the concerns of industrial production and thus reconnecting with the spirit of the Bauhaus or Black Mountain College.

Near the Place de la Bastille, in the heart of Paris, the ENSCI - Les Ateliers occupies a historic place in the former studios of the decorator Jansen.

The school has kept the spirit of these workshops, while opening up to the most contemporary technologies.

A public institution of an industrial and commercial nature, the ENSCI is placed under the dual supervision of the ministries responsible for culture and industry and enjoys recognition and national and international integration.

It is ranked second in European and American schools and universities by the Red Dot Design Ranking 2016. The school is a founding member of a community of universities and institutions, the COMUE heSam.

Two diplomas are offered in initial training: Textile Designer and Industrial Creator, each raised to the rank of a Master.

In the field of continuing education, the ENSCI provides short courses and delivers two specialized Masters, accredited by the Conférence des Grandes Écoles, as well as a post-graduate degree.

From its inception, ENSCI has developed an innovative pedagogy based on project and individualized cursus, and a pupil-centred approach of each student's cursus, in contrast to classical linear study-tracks, where pupils with very varied profiles are actors of their own training.

At l'ENSCI – Les Ateliers, we "learn by doing": we experiment, we proceed by iteration, we handle uncertainties. We learn to manage complexity, to design uses and systems in a socially responsible way. This environment of knowledge production and transmission remains open 24 hours a day throughout the year.