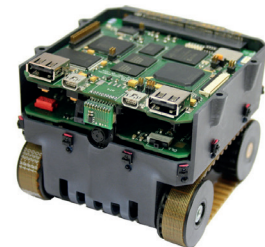
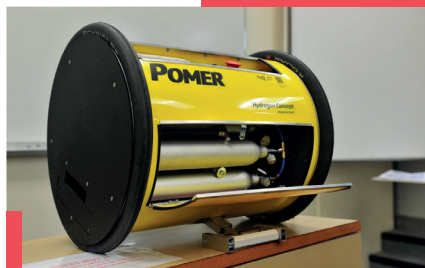
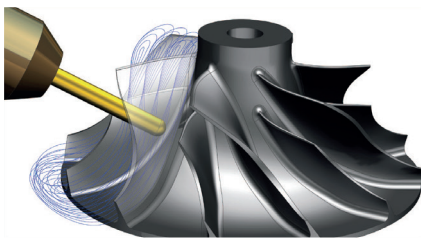




2ND AND 3RD YEAR SPECIALISATION

PRODUCT ENGINEERING

Providing students with a complete picture of the design/industrialisation process of a manufactured product. They will acquire technological and scientific skills to understand the product development and industrialisation processes at all stages of the product lifecycle.



COURSE CONTENT

- > Choice of Materials and their Deployment
- > Product design
- > Product modelling and development
- > Product use
- > Production compliance and stability
- > Rapid Manufacturing
- > Design of experiments
- > Programming control machines and objects
- > Project 1
- > Industrial Design
- > Processes
- > Costing, purchasing, and pricing
- > Production system
- > Project 2
- > Internship



9 INDUSTRY INNOVATION AND INFRASTRUCTURE



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



INDUSTRY SECTORS

- > Automotive
- > Aeronautics
- > Naval
- > Construction
- > Machinery
- > Consultancy
- > Food industry

CAREER PROSPECTS

- > Research and development engineer
- > Product manager
- > Project manager in industrial development
- > Quality engineer
- > Project manager / staff for a design project, new product or service manager
- > Innovation manager

TEACHING STAFF

HEAD OF SPECIALISATION:

Matthieu Rauch

LECTURERS:

Jérôme Friant, Jean-Yves Hascoët, Olivier Legoff, Catherine Michel, Gilles Carabin, Jean-François Petiot, Emilie Poirson, Matthieu Rauch, Hervé Thomas, Tugdual Le Néel

EXTERNAL SPEAKERS:

Stelia Aérospac, Faurecia, Dessouter, ENSAM, Audencia Business School, École de Design de Nantes Atlantique, Nantes University Hospital, L'Oréal

CONTACT:

matthieu.rauch@ec-nantes.fr

EXAMPLES OF PREVIOUS PROJECTS

- > Study and development of a POMER - self-sufficient energy-generating unit fed by a hydrogen fuel cell (Pure E.T.)
- > Design and production of sports wheelchair prototypes for Paralympic athletes (Team 303)
- > Development of a system to recycle components and materials - (Veolia)
- > Design of a mobile system to carry out the regulatory load bearing tests of sports equipment (sportest)
- > Design and development of tools for escalator maintenance (Enerpac)
- > Study and development of a recharging station for VAE in the public space (Abri Plus)

EXAMPLES OF PREVIOUS INTERNSHIPS

- > Numerical modelling of foundry forming processes (Transvalor)
- > Maintenance of power tools (Airbus)
- > Technical and Financial Studies Manager (Naval Group)
- > Lead Design Development Manager (Plastic Omnium)
- > Study of a solution for industrial tools (Dessoutter tools)
- > Quality Engineer (Thales)
- > Structural design and manufacturing study of a float for an autonomous desalination system (Oneka technologies)
- > Numerical modelling. Piloting the resolution of architecture and implementation problems (Renault)
- > Predictive maintenance (Arianespace)
- > Design of automotive parts (MBtech Bohemia s.r.o., Prague)
- > Creation of a standard range (Safran Aircraft Engines)



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École Centrale de Nantes. Direction de la communication. October 2022

GRUPE DES ÉCOLES
CENTRALE

