OBJECTIVES

The Chemistry & Innovation track of the Master degree of Chemistry (co-accredited by PSL and Sorbonne University) aims at providing students with a broad background in chemistry and with abilities to transform scientific knowledge into innovative research or economic outputs.

The track offers high level courses in all fields of chemistry (molecular chemistry and chemical biology, physical and analytical chemistry, theory and modelling, materials chemistry) oriented towards the most innovative and up-to-date research topics. A choice of elective courses allows students to customize their own curriculum. Students are encouraged to develop their innovative skills through human and transverse skills, transdisciplinary activities, projects in interaction with research labs in PSL and internships.

MAIN ASSETS

The program, entirely taught in english, is articulated along three learning goals:

— A broad training in fundamental chemistry will be offered through general-interest courses articulated along 4 topics: Molecular chemistry; Analytical and physical chemistry; Theoretical chemistry; Smart materials

— Training by research through strong interactions with research laboratories and various formats ranging from research challenges to laboratory internships

— Multiple skills and innovation: a unique course offer to open minds from deep training in innovation to various soft skills

CAREER OPPORTUNITIES

The Chemistry & Innovation track leads to a broad range of career opportunities, including academic research, private sector research, development, production, innovation and entrepreneurship, scientific patenting, consulting.
Semester 1 (30 ECTS)

Training in Chemistry
— 4 basic courses in MDS, APC, TC & SM
— 3 advanced courses chosen among 4
in MC, APC, TC & SM

Training by Research
— Research challenge

Openings and innovation
— Mathematics & physics for chemistry
— Innovation 1: design thinking

Semester 2 (30 ECTS)

Training in chemistry
— 2 super-advanced courses chosen among
a broad offer in MDS, APC, TC & SM

Training by research
— Pre-internship project
— 3 month research internship

Openings and innovation
— Innovation 2: prototyping
— Soft skills including French for foreigners
or other languages

| Curriculum (M1): any of the M2 tracks proposed in the Chemistry master’s degree |