

COMPLEX SYSTEMS CHEMISTRY
**INTERNATIONAL
GRADUATE SCHOOL**
UNIVERSITY OF STRASBOURG FRANCE

University of Strasbourg France
a chemistry hot spot

1
IN CHEMISTRY
IN EUROPEAN UNION
(SHANGHAI RANKING 2023)

3
NOBEL PRIZES
IN CHEMISTRY

1
EUROPE IN
INNOVATION IMPACT
(RANKING NATURE INDEX INNOVATION)

Université
de Strasbourg

C S C
GRADUATE SCHOOL

Complex Systems Chemistry (CSC)

RESEARCH AXES



Molecular units and reaction networks that express specific functions by virtue of their architectures and collective behavior



Adaptive and evolvable chemical systems, capable of responding to external stimuli



Strongly multidisciplinary approaches ranging from biomedical, green chemistry to advanced materials

KEY FIGURES

Complex Systems Chemistry in 2025, **a cluster of 15 research groups** in Strasbourg, now known as **SysChem**:



ACTIVE NOBEL LAUREATES,
INCLUDING JEAN-PIERRE SAUVAGE (2016)



MEMBERS OF THE FRENCH ACADEMY OF SCIENCES



MEMBERS OF THE INSTITUT UNIVERSITAIRE DE FRANCE (IUF)



CNRS MEDAL AWARD WINNERS



ERC GRANTEES

About us and mission

We are taking a new approach to educating a new generation of chemistry leaders – those that will prepare the future of industry and the environment.

An international Master program centered on a unifying scientific theme: Complex Systems Chemistry (CSC), combining fundamental knowledge, cutting-edge research and interdisciplinary thinking

A program for international students: English as the only teaching language

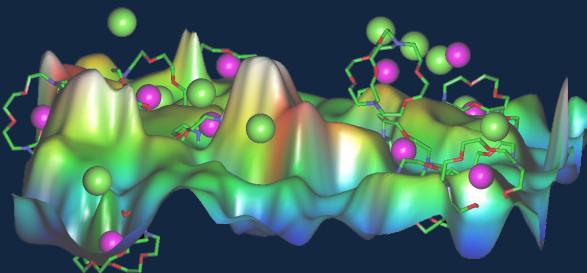
Defining CSC Research and CSC Graduate School learning as a whole



Combining the existing expertise in CSC with educational program: constantly exposing students to current research activities and innovation



Preparation for PhD studies:
A research-oriented Master providing strong foundations for doctoral studies
Training at the interface between disciplines, aligned with current research challenges



Educational program

MASTER PROGRAM: 2 YEARS



A multi- and transdisciplinary program that offers a broad education in:

Molecular and physical chemistry (synthesis, spectroscopies, materials science, theory) including industrial aspects

Selected examples of courses: Organic, Supramolecular, Systems Chemistry, Advanced spectroscopies, Microfluidics



Students are learning by doing

14 months of experimental work in 2-3 research laboratories, including practical training with their state-of-the-art equipment

M1 internship: 4 months in academic laboratories or international companies

M2 internships: 4 months in academic laboratories or international companies, 6 months in academic CSC laboratories

Participation to a summer school



Entrepreneurship & Innovation program

Significant exposure to issues relevant to industrial R/D and the innovation value chain, including business immersion days with industrial partners

Visits to corporate research centers

Hands-on course on how to create a start-up pitch, in collaboration with industries and start-up incubators



The CSC Graduate School focuses on student's soft skills

Professional and personal development through an innovative and customized 2-year leadership training program, favored by recruiters for hiring

Personal mentoring from peers and senior researchers

Individual coaching to improve writing and communication skills

Want to go further ?



BACHELOR OF SCIENCE (CHEMISTRY)



MASTER PROGRAM (2 YEARS)



A multi- & trans-disciplinary program



14 months of experimental work in 2-3 research laboratories



Entrepreneurship & Innovation program with companies



Management and soft skills program recognized by a certificate



PHD PROGRAM (3 YEARS)

PhD opportunities in several laboratories in Strasbourg are generally available

The CSC Master provides an excellent preparation for doctoral studies by:



Offering a strong research-oriented training that can be leveraged during a PhD thesis

Familiarizing students with interdisciplinary research topics, at the interface of chemistry, physics, biology and materials science

CSC graduates are well prepared to **pursue PhD programs in leading academic and industrial research environments worldwide.**

A rewarding experience

4 GOOD REASONS TO CHOOSE THE CSC GRADUATE SCHOOL:

- Get ready to shape the society of tomorrow through chemistry
- Benefit from small class size, mentorship, and significant research experience
- Grow personally and professionally
- Live in the capital of Europe, in a very international city



Admission criteria

- You have a Bachelor in the field of chemistry or related subjects
- You have a solid background in English and you want to further develop it
- You have a strong interest to acquire professional knowledge in the field of complex systems chemistry



What do we offer?

- MSc scholarships: roughly 650€ per month covering most living costs
- Financial assistance for your arrival in Strasbourg. Travel expenses will be reimbursed up to 1000€ (subject to the provision of receipts).
- Specific assistance to international students for housing, visa application, enrolment and health insurance
- Exemption from registration fees at the University of Strasbourg

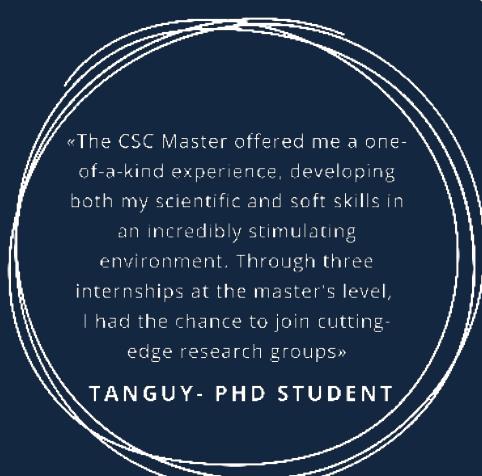


Student testimonials



«I chose the CSC Master because it gives a direct insight into what it is to work in a chemistry lab (research or industry). So far it has been an amazing and enriching experience. Now I have a clearer idea of what to do next.»

VALERIA - MSC STUDENT



«The CSC Master offered me a one-of-a-kind experience, developing both my scientific and soft skills in an incredibly stimulating environment. Through three internships at the master's level, I had the chance to join cutting-edge research groups»

TANGUY - PHD STUDENT



JOIN US !

→ Apply at [https://syschem.unistra.fr/
en/admission/](https://syschem.unistra.fr/en/admission/)



CONTACT US:

→ grad-csc@unistra.fr

FOLLOW US:

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Chemistry of Complex Systems | SysChem

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