



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)

4
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 2023, a **cluster of 17 research groups** in Strasbourg, now known as **SysChem**:

3

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

5

MEMBERS OF THE FRENCH ACADEMY OF SCIENCES

12

MEMBERS OF THE INSTITUT UNIVERSITAIRE DE FRANCE (IUF)

9

CNRS MEDAL AWARD WINNERS

12

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.

A 5- year integrated Master-PhD program centered around a central theme : Complex Systems Chemistry (CSC).

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

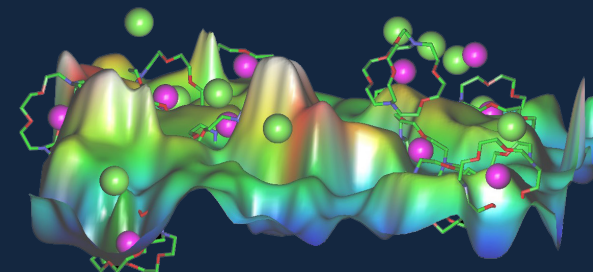
Defining CSC Research and CSC Graduate School learning as a whole



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



Benefits for PhD:
Leverage master program during PhDthesis
PhD thesis topics at the interface between disciplines



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 internships: 4 months in academic laboratories or international companies

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

An annual 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 5-year leadership training program, favored by recruiters for hiring

Personal mentoring from peers and senior researchers

Individual coaching to improve writing and communication skills

PHD THESIS: 3 YEARS



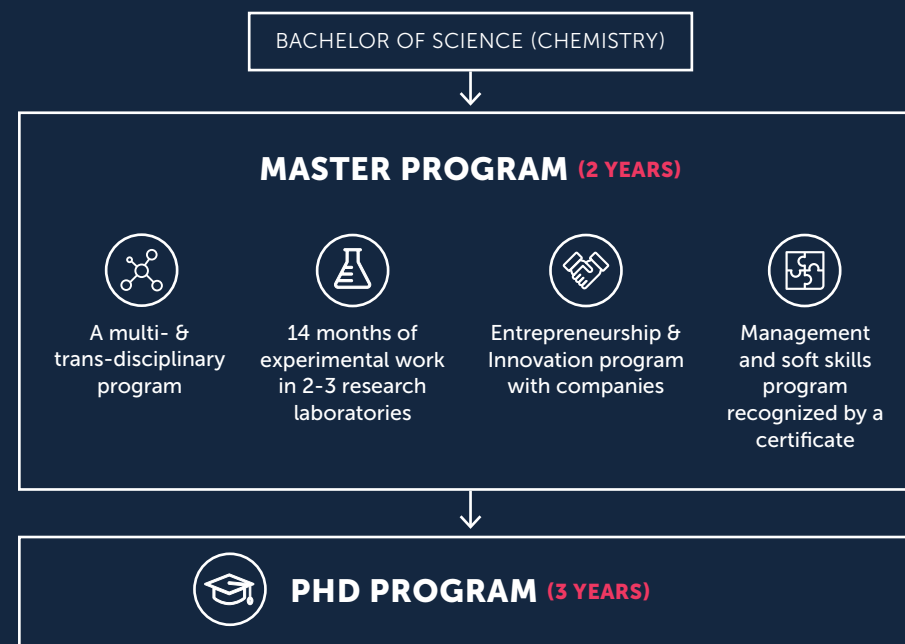
A combined thesis and CSC Graduate school diploma

Specific training and scientific workshops

Leadership training program in continuity with the MSc period

A community of PhD student and personalized mentoring

A CSC Graduate School diploma recognised in academia and industry



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 good foundation 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
- PhD fellowships for successful MSc students with net salary roughly 1700€ per month
- Financial assistance for 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 (MSc students only)

Student testimonials

«I choose the CSC Master because it gives a direct insight into what 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 - PHD STUDENT

«The CSC Master offered me a one-of-a-kind experience, providing unique to develop 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/>



CONTACT US:

→ grad-csc@unistra.fr



Chemistry of Complex Systems | SysChem

The interdisciplinary thematic institutes of the University of Strasbourg

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