

Lyon and the Rhône-Alpes region

1.2 million inhabitants, 110,000 students, 4 universities, 15 Grandes Ecoles, 7,000 research workers, Lyon is a youthful city, animated and creative, with a city centre classified by UNESCO as a world Heritage Site.

This cultural and historic richness lives side by side with the creations of great contemporary artists. Lyon has an intense artistic and cultural life, with the Opera House, the Auditorium, around 15 theatres, many museums, Roman remains....

Lyon is the gastronomic capital of the world and the city where the Lumière brothers invented the cinema.



Lyon is a major European city with an International conference centre and the world headquarters of Interpol.

Lyon is close to the Alps where you can find 7,000 km of ski runs and the largest area of skiing in the world (220 ski stations such as Chamonix, Val d'Isère... around the highest mountain in Europe : The Mont-Blanc).

Lyon is 1h45mn by TGV (high speed train) from Marseille, the gateway to the Côte d'Azur, and 2 hours from Paris.

Practical information

Fees and housing :

CPE Lyon will pay for the tuition fees for the French language classes. Students will pay 1 800 € for their participation. This amount corresponds to housing in a student residence for the 6 weeks, the fee for the laboratory course, and various outings and cultural activities organised during the program.

The co-ed student residence is close to the city centre. It offers single rooms with shared bathrooms (no catering facilities). Students should plan to arrive exclusively on Monday 8th June 2009. They will be met at the airport or train station by representatives of the Summer School.

Application :

Please return the enclosed form together with the related documents to the local coordinator of your home institution.

Registration deadline :

February 28th, 2009 (at your local coordinator). A confirmation of application will be sent to you together with further practical information. If you are admitted, we will ask for pre-payment of your participation fees. A 200€ reduction will be given for fees paid before April 11th, 2009.

Living expenses :

Plan an additional monthly budget of at least 500 €, for food and local transport. Lunch can be provided Monday to Friday upon pre-registration at a reasonable cost.

« Living in a French student residence was excellent because you were always around the French students and other people in the summer school program. I highly recommended it. David, North Carolina State University, USA »



Ecole Supérieure de Chimie Physique

Electronique de Lyon

Lyon School of Chemistry, Physics and Electronics

INTERNATIONAL SUMMER SCHOOL IN FRANCE

Chemistry and Chemical Engineering

Lyon, France — 9 June to 17 July, 2009

A six-week program in a French *Grande Ecole* to improve your French language proficiency and your scientific knowledge at the same time.



« Between the helpful staff and amazing international students, I know I will look back to this summer as one of the best I've ever had. » Jeremy, North Carolina State University, USA

« Our projects were informative and tailored to our interests while the advising professors were very understanding and helpful. » Kerry, University of Pittsburgh, USA



The Program



WHAT IS THE CPE INTERNATIONAL SUMMER SCHOOL ?

A six-week program organised by CPE Lyon engineering school that provides the opportunity for students to live and study in France, to develop language skills and experience a different cultural environment, to meet students from all over the world, while at the same time taking an undergraduate practical course in chemistry and/or chemical engineering.

WHAT DOES THE PROGRAM CONTAIN ?

- A course of French as a foreign language.
- An undergraduate practical course in Chemistry and/or Chemical Engineering. You will carry out at least 8 experiments in the teaching laboratories of CPE Lyon.

Examples of experiments to be carried out:

- Determination of the general expression for pressure drop in a linear tube.
- Stirring: The determination of the relationship between the power number N_p and the Reynolds number Re .
- Ebulliometry: Liquid-vapour equilibrium.
- Stephan's tube: Mass transfer by measurement of the evaporation of a liquid as a function of time.
- The chemical analysis of water : pH, conductivity, ion chromatography, alkalinity, hardness...
- Nitrogen analysis by the Kjeldahl method.
- The kinetics of a homogeneously catalysed reaction followed by chromatography.

At least 40 hours will be spent in the laboratory.

- Visits to industrial companies in the Rhône-Alpes region.
- Social and cultural visits and events including a day trip to the Beaujolais wine region.

You will be looked after by the International Relations staff of CPE LYON throughout your stay.

WHO IS IT FOR ?

Undergraduate students in chemical engineering or chemistry, who have completed one or two years of university study.



MUST YOU SPEAK FRENCH ?

No, but if you do not have a basic knowledge of French, you must be fluent in English. The practical classes will be supervised by teaching staff who speak English, and all documents will be provided in both French and English. There will be a French language class for beginners.

WHAT WILL YOU GET OUT OF THE SUMMER SCHOOL ?

This Summer School is a wonderful opportunity for you to get to know France, its culture and educational system. You will improve your French language skills, complete a module of practical work, and discover the Rhône-Alpes region.

You will realise that it is possible to plan to spend a semester or a whole year studying in Lyon as part of an exchange program. This could be to attend classes, carry out a research project, or a mixture of both. There may also be possibilities of planning an industrial internship in France.

You also have the possibility to obtain up to 6 European Credits (ECTS) upon successful completion of the program.

Where will classes take place?

The French language classes will take place, usually in the morning, on the campus of the Ecole Catholique des Arts et Métiers (ECAM) where you will be housed.

The practical classes, usually in the afternoon, take place in the laboratories of CPE LYON

www.cpe.fr

Ecole Supérieure de Chimie Physique Electronique de Lyon
(CPE Lyon):

Grande Ecole, over 1,000 students, 11 Laboratories, 400 researchers.

CPE Lyon Industry — Entrepreneurship — Research — International — Chemistry — Chemical and Electronic Engineering

CPE Lyon has two broad specialities to choose from : chemistry— chemical engineering and electronics, telecommunications and computer science.

In chemistry and chemical engineering : organic chemistry, analytical sciences, chemical and process engineering, sustainability, catalysis, polymers, product design and engineering.

In electronics : microelectronics, telecommunications, networks, computer science, signal and image processing.

11 research laboratories, most associated with the CNRS.

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