



A 3-week program in English

Topics:

Artificial Intelligence

Big Data

French as a Foreign Language

10 ECTS

Summer School

*Artificial Intelligence
& Big Data*



July 1st - July 22nd, 2026
Cergy Campus, France

Impacting tomorrow today

<https://cytech.cyu.fr>

CY Cergy Paris University

Since the first of January, 2020, Cergy-Pontoise University and EISTI have merged under a new name: CY Cergy Paris Université. It is composed of **25,000 students**. ESSEC is associated with CY as a partner institution. The academic course offerings are made up of an undergraduate university (CY SUP) and of five undergraduate and graduate schools, four within the university, with the fifth being ESSEC. **In addition to ESSEC, the other graduate schools led by CY university are :**

- **CY TECH**

Specialized in Computer Science
Applied Mathematics
Civil Engineering
Biotechnology & Chemistry
Economics and Management

- **CY LAW AND POLITICAL SCIENCES**

Represented by Sciences Po St-Germain-en-Laye campus

- **CY EDUCATION**

Represented by INSPE, EPSS and ILEPS institutions

- **CY ARTS AND HUMANITIES**

Represented by the National Higher School of Arts Paris-Cergy (ENSAPC)
The National Higher School of Architecture of Versailles (ENSAV),
The National Higher School of Landscape Design (ENSP)
The National Heritage Institute (INP)

CY Tech

Located in Greater Paris and in Pau, CY Tech is primarily an Engineering Graduate School. It has earned the “Grande Ecole” status, the highest recognition stated by the French Ministry of Higher Education & Research. CY Tech is also a member of the “Conférence des Grandes Ecoles” (CGE), a French association that gathers elite higher education institutions, which meet strict criteria regarding the recruitment process, educational approach, international and corporate network.

Accessible after the completion of a secondary education diploma or through a dedicated post-secondary preparatory class, it delivers a Master’s degree in these four fields:

- Applied Mathematics;
- Computer Science;
- Civil Engineering;
- Biotechnology & Chemistry.

Two university departments have been incorporated into CY Tech: **the Institute of Sciences & Techniques (CY Tech ST)** and **the Institute of Economics & Management (CY Tech EG)**, which broadens our overall course delivery in these specific areas.

CY TECH COURSE OFFER IS STRUCTURED IN THE FOLLOWING MANNER:

- A five-year Grande Ecole Engineering program;
- Post-secondary preparatory classes leading to Grande Ecole program enrollment;
- Undergraduate & Graduate Programs;
- Continuous training programs: Specialized Postgraduate Master’s;
- International Master’s with campuses located out of France;
- PHD programs.

Design your life

Our mission Our values

The mission of CY Tech is to meet the rising expectations of both students and industry. Through innovative programs and faculty exchanges, we seek to provide our students with an ever-increasingly attractive educational experience. Students can choose undergraduate and graduate programs in both Engineering and Management disciplines. Students also acquire valuable knowledge and global managerial skills through internships and study abroad experiences with universities worldwide. Since CY Tech's inception, the institution has gradually adapted itself to the evolving economy that offers an extensive and diversified curriculum that meets a contemporary vision of today's world.

Its objectives are:

challenge-driven to prepare students and staff as global citizens and lifelong learners who care and act for the future of the planet and humanity
committed to the principles of openness and inclusion, by building open resources and collaborative platforms, endorsing open science agendas, and sponsoring the access, mobility and inclusivity mechanisms that liberate our intellectual and social potential.



CY Tech International Involvement

CY Tech's international involvement is indisputable and includes work experience abroad, academic exchanges as well as dual degree options.

Our institution renewed an Erasmus Charter for Higher Education.

This recognition demonstrates our expertise in mobility of students & staff and in strong cooperation for innovation and good practices under the Erasmus + policy.

CY Cergy Paris University is a member of Campus France, the official agency for the promotion of French Higher Education worldwide. CY Tech has also aligned with different European and international organizations and associations (EUTOPIA, EAIE, NAFSA, n+i Network, AIEA, ...) which aim to promote progress of international education.

On another note, CY Tech has proven expertise in submitting and managing European and international Calls for Projects (International Credit Mobilities including European and non-European partner institutions, projects on Capacity Building).

CY owns a Language Centre and is also an ETS TOEIC Authorized Test Centre.

Our university was awarded the **"Bienvenue en France"** label, which distinguishes French Higher Education institutions that have developed reception facilities dedicated to international students. **CY is establishing solid links with South-Asian universities** which will contribute to the creation of a Franco-Chinese Institute to further internationalize its educational opportunities. One of the most remarkable achievements at European level is the recent development of an alliance of six like-minded universities, located in Belgium, Slovenia, Spain, Sweden, the United Kingdom and France, entitled **EUTOPIA**.

The mission of EUTOPIA is to build in the long term a unique and daring alliance of transformative and engaged institutions. The alliance has developed strong ties within the regional communities, the institutional structures and the local companies. EUTOPIA students, researchers and staff work together to build a new academic model, reflecting an open and a united Europe, respectful of the citizens and the environment.

CY Tech diplomas require an official language certification in English as a Foreign Language

as part of its national diploma recognition criteria. CY Tech will have signed 250 university partnerships worldwide within the two coming years, including more than 50 international dual degree options. A substantial number of cooperation programs allow the institution to enhance incoming mobility through its undergraduate, graduate and post-graduate English-taught course delivery. In keeping with CY Tech's global vision, our institution plans to open an offshore campus within the near future.

What makes CY Tech Different?

ONE AMBITIOUS VISION

CY, defined as a university of diversity, society-oriented and of international standing, seeks to educate new generations in the complex challenges of a globalized society in tune with the sustainable development objectives, academic excellence and quality student experience.

A HIGH-PROFILE RANKING STATUS

National and international rankings, recognized by many specialized media and websites, show once again that CY course offerings are considered as one of the best in the fields of **Engineering, Management, Mathematics & Finance, internationalization and professional integration.**

CUTTING-EDGE RESEARCH & TECHNOLOGY TRANSFER ACTIVITIES

Research and technology transfer are at the heart of the dynamics of CY Tech, whose missions contribute to the appropriation of scientific knowledge.

CY Tech asserts its vision and pursues an active policy in technology transfer innovation of its research activities, conducted by recognized full-time researchers within its fourteen laboratories and five Open Labs in modeling and experimental sciences.

A WIDE RANGE OF FACILITIES OFFERED AT THE CAMPUS

- Four libraries with over 2 million publications
- Four university residences and private housing facilities
- Student sports facilities with over 30 individual & team activities
- Four student restaurants, four cafeterias
- 47 student associations
- A full package of cultural activities including a “cultural Pass voucher”, a special pass which offers discounts to theaters & cinemas bookings and to other cultural events in Greater Paris



“BIENVENUE EN FRANCE” LABEL

This national recognition, awarded by our university, enhances our expertise dedicated to international students, mainly in the following areas:

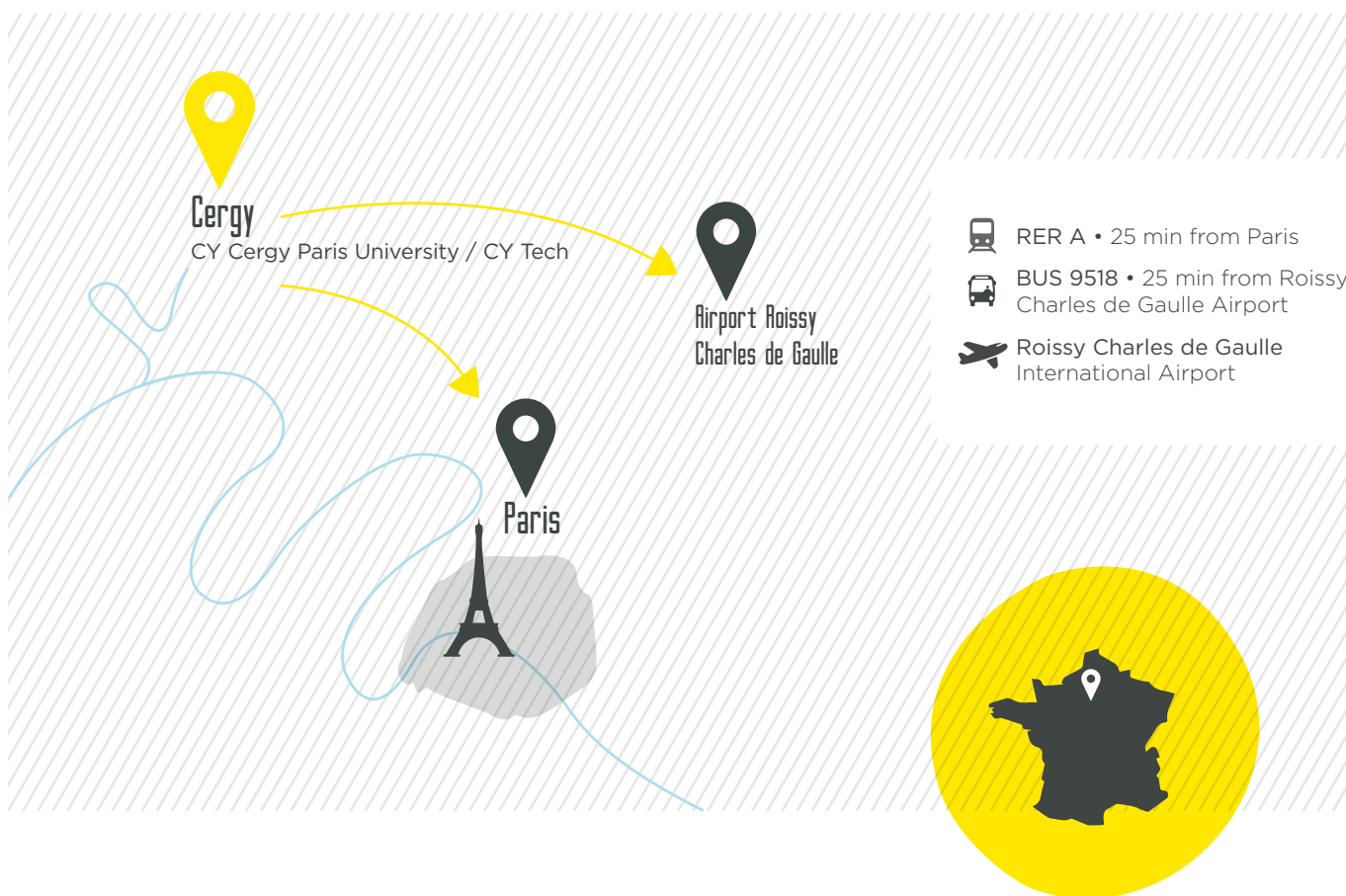
- Quality and accessibility of information & reception facilities;
- Tutorial support services;
- Housing facilities and campus life development;
- Post-graduate career development and alumni services.





Have you ever studied in Europe?

CY Tech provides you with an exceptional opportunity to combine both advanced academic learning and a memorable French cultural experience.



CY Tech Campus, an exceptional geographical location in Greater Paris

The Paris Region has much to offer to international students, such as history, art, culture on top of its academic & scientific excellence. It is a unique place to learn, discover, study, engage and exchange, a place where dialogue, fraternity, freedom and creativity will always prevail.

Paris has been listed in the QS best student cities ranking for many years. At only 25 minutes from the world famous Les Champs Élysées, or La Défense (one of the major futuristic skyscraper- packed, business districts in Europe) stands the city of Cergy-Pontoise.

The historic heart of Cergy-Pontoise thrives on a prestigious past which has often found itself at the crossroads of the history of France itself, as when the Royal Court resided there. Its fame was extended through the long residency of Camille PISSARRO, who painted the varied landscapes of the town and its nearby countryside in numerous works, which are now to be found in the greatest museums in the world. Blessed with rich heritage, Cergy-Pontoise became on March 30th, 2006, a member of the national network of towns and lands of Art and History.

This label, delivered by the Ministry of Culture and Communication, embodies a policy aiming to promote heritage and architecture. Today, Cergy is known as a vibrant student hub.

A memorable learning, social and cultural experience

STUDY WITH PROFESSIONALS

Our Summer School aims at developing the students' academic knowledge and professional skills in 2 major topics related to Computer Science – Visual computing and Artificial intelligence. In addition, you will be involved in various projects with the teaching staff and you will take courses in Visual Computing and Artificial Intelligence, which will provide you with the tools to create virtual reality, video games, virtual divides, interactive objects and to learn about optimizations methods and data mining. As an additional module, French as a Foreign Language will be included to help you socialize with the French population.

A MEMORABLE SOCIAL AND CULTURAL EXPERIENCE

- Experience academic excellence through an interactive way of learning
- Meet French professionals for tailor-made conferences
- Take a deep dive into a specific career field with access to world-class faculty and industry professionals
- Build yourself a strong professional career
- Make friends from overseas at CY Tech
- Participate in cultural activities

DISCOVER FRENCH CULTURE THROUGH « FUN » ACTIVITIES

- Make the most of Cergy-Pontoise, an exciting student hub;
- Visit the world-famous famous monuments in vibrant Paris;
- Take the tourist boat to visit Paris;
- Stop off at the world-famous museums and discover their artistic masterpieces;
- Enjoy cultural visits (the Eiffel Tower, the Champs-Élysées, ...) & company visits;
- Explore Parisian Street Art;
- Experience thematic Treasure Hunts.





ACCOMMODATION

You will be able to stay at the “Résidence Jean Baptiste La Salle” or at the «KLEY Cergy résidence», both located less than a 5-minute walk from CY Tech. Both residences provide internet access, lounge with cable TV, fitness area, secure entrance, launderette, bike parking. You will be accommodated in a fully furnished room. Town center, restaurants and shops are within easy walking distance from the residences. There are national festivals and music events at this time of the year. You can also decide to book accommodation in Paris on your own initiative.



A three-week program in English: July 1st - July 22nd, 2026

Topics:

Big Data

Artificial Intelligence

French as a Foreign Language

Number of ECTS: 10

Number of US Credits: 5

Number of teaching &
supervised project hours: 63 hours

Course details

Lectures	63 hours - including face-to-face & supervised project in VC and AI
Big Data	21 hours (9 teaching hours + supervised project)
Artificial Intelligence	21 hours (9 teaching hours + supervised project)
French as a Foreign Language	21 hours (7 three-hour sessions)

Syllabus

ARTIFICIAL INTELLIGENCE (9 hours + supervised project)

- Theoretical concepts of Deep Learning (3 hours)
- Deep Learning for image processing (3 hours)
- Deep Learning for Natural language processing (3 hours)

BIG DATA (9 hours + supervised project)

- Introduction to Big Data, market trends, tools & technologies, why we need to analyze Big Data, highlight on advanced analytics use-case with Big Data;
- Hadoop: Introduction to Hadoop, Hadoop eco-system, hive, impala, pig, flume, kafka, etc;
- Spark details with concrete examples

SUPERVISED PROJECT (24 hours)

Big Data project: Twitter sentiment analysis & Advanced analytics project

FRENCH AS A FOREIGN LANGUAGE (21 hours)

In class, emphasis is placed on oral practice and interactive learning activities in a real-life approach to the language. It will include simple routine tasks, common polite phrases and exchange of information in order to encourage students to develop their communication skills in daily life situations.

Objectives

Artificial Intelligence is a historical field of computer science that has been completely revolutionized by the emergence of deep learning in the last decade. Applications to image processing and natural language processing now offer very interesting and powerful tools. In this course, we will illustrate some examples of such applications, mixing theoretical and practical lessons.

Big Data

This course will promote students good understanding of the Big Data eco-system, current trends, highlight the Big Data challenges, allow students to build on-demand Big Data applications and show them how to solve advanced analytics problems with Big Data using cutting-edge technologies.

French as a Foreign Language

This course will enable students to start or improve their language skills in French. It is specifically designed to help them acquire language abilities and essential communicative skills according to their level.

Admission requirements

THIS PROGRAM IS OPEN TO:

- Undergraduate and Graduate Engineering students (18 years of age as a minimum criteria/exceptions can be considered)
- Native and non-native English speakers (proficiency level: IELTS 6.0 or equivalent)
- Applicants with relevant knowledge in Engineering-oriented subjects.

TOEIC: 800 IBT TOEFL: 80 IELTS: 6.0

French Proficiency: no prerequisite

French as a Foreign Language: Instruction included in CY Tech program

APPLICATION PROCEDURES

Submit your application on the following link: <https://eisti.osc3.tech/candidacy/151>, as early as possible, and at the latest on April 30th, 2026.

Shortlisted candidates will be contacted after sending applications and will be accepted after the file evaluation. Selected candidates will receive an unconditional offer letter. You can also visit our website for more information.

APPLICATION FORM

For further information, please check our website:

<https://cytech.cyu.fr/international-cy-tech/futur-etudiant-interesse-par-un-diplome-cy-tech/summer-school> or contact us at

the following email address:

cytech.international@cyu.fr

PROGRAM COST

Program cost: 2 000 €



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