



ORA
Student Exchange Program

ENGINEERING PROGRAMS



ÉCOLE
CENTRALE LYON



POLYTECH[®]
ANNECY-CHAMBÉRY



POLYTECH
LYON



telecom
saint-étienne
école d'ingénieurs
nouvelles technologies



The Ontario – Rhône-Alpes Student Exchange Program is an opportunity for students from 21 partner institutions from Ontario and Auvergne-Rhône-Alpes to develop their skills through an international experience. The ORA Program offers opportunities for semester or full year exchange, short programs, language programs and research internships at very high quality institutions.

This booklet presents the wide variety of programs which Auvergne-Rhône-Alpes institutions offer to Ontarian engineering students through the ORA Program.

1. Institutions in the ORA Program
2. Engineering opportunities at the ORA member institutions

ORA contacts



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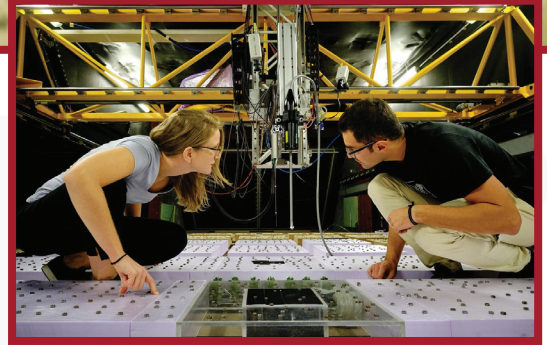
1. INSTITUTIONS IN THE ORA PROGRAM

(Engineering Schools)



ÉCOLE CENTRALE LYON

One of France's top engineering schools. Since its foundation in 1857 it has been dedicated to innovation, entrepreneurship, internationalism and social responsibility, with a mission to educate and train engineers and researchers, providing them with the skills that will be needed to solve the scientific challenges of tomorrow, in an international context. The school offers a general degree program in engineering science, nourished by high-level research and a close relationship with the business world, which equips its graduates to manage complex multi-disciplinary projects.



Pages to consult :

- **Fact Sheet**
- **Welcome Guide**
- **Exchange possibilities**

Click here to watch the video !



Our 8 engineering and management schools are both closely tied to the industrial world and open to the international scene. Grenoble INP - UGA delivers 1,200 engineering degrees and 230 doctoral degrees per year. As a result, our schools contribute greatly to the Groupe INP network, making it the leading public engineering school network in France.



Click here to watch the video !



Pages to consult :

- **Fact Sheet**
- **Coming to our Institution**
- **Academic Programs**

INSA

INSTITUT NATIONAL
DES SCIENCES
APPLIQUÉES
LYON

INSA Lyon is France's leading post-baccalaureate engineering school. Diversity, excellence, open-mindedness and innovation are the key principles of INSA Lyon, which, over the course of its sixty-year history, has defended a vision of the avant-garde engineer that is still modern today. In terms of training, the school is one of the 10 best engineering schools in Europe.



On the research front, it has established itself as a world-renowned research and innovation centre, with a strong appeal to the industrial and economic world.

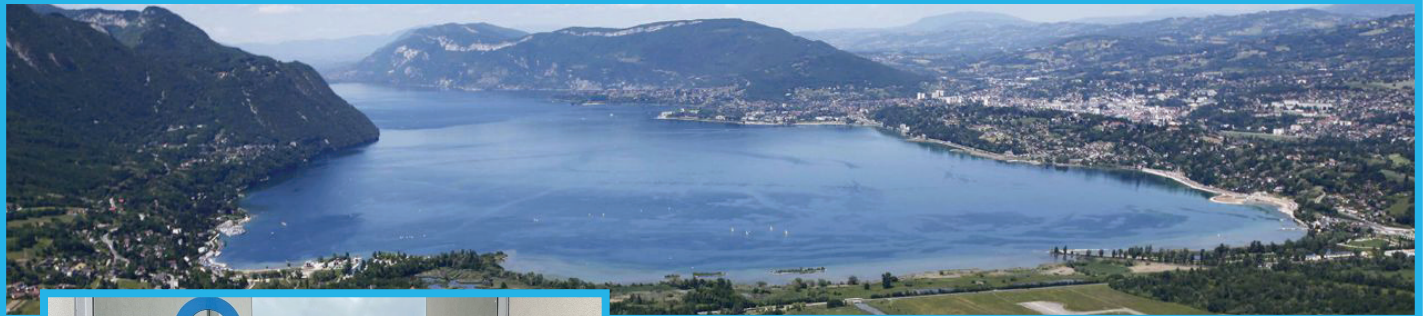


Click here to watch the video ! 



Pages to consult :

- Welcome Guide
- Exchange students
- Training offers



Polytech Anney-Chambéry is a state school that has been granted the right by the Engineering Qualifications Commission to issue engineering diplomas in four fields. The outstanding characteristic of Polytech Anney-Chambéry is that it is part of both the Université Savoie Mont Blanc and the Polytech Network. This gives students the double guarantee of teaching based on high-level research and a diploma bearing the «Polytech» label.



Pages to consult :

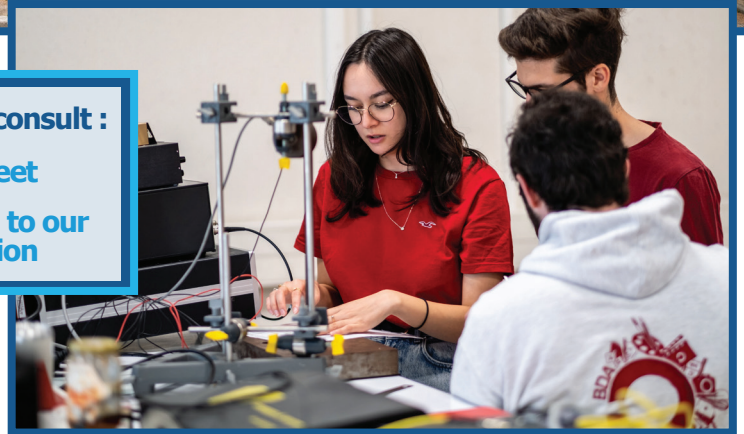
- A 5-year program
- International students program



POLYTECH[®]
ANNEY-CHAMBÉRY



Polytech Lyon is a state-school whose diplomas are government-accredited in six fields: Applied mathematics, Biomedical engineering, Computer science, Industrial engineering, Materials engineering and Mechanics. Polytech Lyon is part of both the Université Claude Bernard Lyon 1 (47,000 students; 62 research laboratories) and the Polytech Network (15 University-affiliated Engineering Schools; 10% of all engineers graduated each year in France)



Pages to consult :

- **Fact Sheet**
- **Coming to our institution**



Telecom Saint Etienne is an integral part of the Université Jean Monnet in Saint-Etienne and an associate member of the Institut Mines-Télécom, TSE trains around 600 student-engineers in electronics, optics, telecommunications, networks, computer vision and computer science.

Pages to consult :

- **Fact Sheet**
- **Coming to our Institution**
- **International students program**



Click here to watch the video !






**2. ENGINEERING
OPPORTUNITIES
IN THE ORA
MEMBER INSTITUTIONS**




Research Project

(Certificat de Formation à la Recherche - CFR)


Field	Tuition fees	Credits	Languages	Duration & Period:
PROJECT PROPOSALS SUBMITTED BY THE LABORATORIES.	Exempted if partnership agreement	30 ECTS (1 semester) / 60 ECTS (2 semesters)	 (can be done entirely in English)	1 or 2 semesters Can be done at any moment.
<p>Application procedure:</p> <ul style="list-style-type: none"> Between March and April (date to be confirmed) Between September and October (date to be confirmed) <p>Description: The CFR is an extended research project carried out in one of our laboratories. Students take French lessons and also have the opportunity to attend any of the taught courses from the 3 year engineering program, either as auditors or for credits.</p> <p>Options for students that come for 2 semesters:</p> <ul style="list-style-type: none"> Two different research projects, each for one semester. First semester in one of the laboratories and the second semester as a paid internship with an industrial partner. In this case, the student must take 100 hours of taught courses in the first semester, in parallel with the research project, in order to qualify as an intern, under French employment law. 				

Full year exchange

(Diplôme d'Études Supérieures de l'École Centrale de Lyon - DESECL)

<p>MATHEMATICS & STRATEGY</p> <p>SUSTAINABLE ENVIRONMENT</p> <p>TRANSPORTATION ENGINEERING</p> <p>AERONAUTICS</p> <p>ENERGY</p> <p>INFORMATION SCIENCE & TECHNOLOGY</p> <p>BIOENGINEERING & NANOTECHNOLOGY</p>	Exempted if partnership agreement	60 ECTS	 (a limited number of courses only in English)	2 semesters From September to mid-September Y+1
<p>Application procedure: Between March and April (date to be confirmed)</p> <p>Description: Students follow all the taught courses of the final year from September to end of March and then carry out an extended internship between April until mid-September which can either be done in one of our laboratories, in a research laboratory elsewhere, or in a company.</p>				

Semester Exchange (S8)

PLEASE CONTACT US FOR THE LIST OF AVAILABLE S8 COURSES	Exempted if partnership agreement	30 ECTS	 (a third of the courses are offered in English)	1 semester From February To end-June
<p>Application procedure: Between September and October (date to be confirmed)</p> <p>Description: Students take 5 courses from a choice of about 60 (arranged, for timetabling purposes in 6 blocks). The taught courses finish at the end of April, and are worth 15 ECTS; students obtain the remaining 15 ECTS from language courses and an extended, full-time research project in one of our laboratories, from May until the end of June. The research project can be conducted entirely in English.</p>				



Contact



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Ginsen Summer School

Field	Tuition fees	Credits	Language	Duration & Period:
<p>NANOTECHNOLOGIES</p> <p>COMPUTER SCIENCE</p> <p>ENGINEERING</p> <p>CHEMISTRY & PHYSICS</p> <p>ENERGY</p>	<p>3000 € for 3 weeks and 300 extra € for the 4th Week (optional).</p> <p>Early bird fee: 10% discount for applications submitted before January 31st</p> <p>Other discounts: 30% discount for Unite! partners</p>	3 ECTS		<p>Summer</p> <p>June to July</p> <ul style="list-style-type: none"> ■ 3-week program («Ginsen package» - mandatory) or ■ 4-week program («Project package» - optional)
<p>Application procedure: Students can start to apply from November, but they have to submit their final application not later than March 31st</p> <p>Description: Students can choose between 2 study programs : Micro&Nanotechnology and Smart Energy of which they will have to follow roughly 30 hours of classes per each course. Other than that, they have 12 h of French class, 6 hours of Project Management and 6 hours of Intercultural communication. There are also many extracurricular activities, such as city tours, game nights, escape games, etc. For the 4th week (optional) students will get the chance to create and present their own project by co-working in groups, under the supervision of the teachers.</p>				

Research project

<p>CLICK HERE FOR THE LIST OF THE GRENOBLE INP- UGA RESEARCH LABORATORIES</p>	not specified	not specified		not specified
<p>Description: On the website indicated above, you will find a dedicated page with all the offers. If one of them interests you in, you can apply by sending a cover letter and a curriculum vitae resume to the internship supervisor(s). If there are no offers, you can send a spontaneous application with a cover letter and a curriculum vitae resume directly to the research laboratory's secretary. When your internship is validated by your supervisor and the laboratory's head, an agreement must be signed between your home university, the laboratory, Grenoble INP and you. Once your project has been confirmed, you will be able to initiate the administrative procedures necessary for its organisation.</p>				

Academic exchange

<p>ANY OF THE 8 GRENOBLE INP - UGA SCHOOLS</p> <p>Please contact us for the list of the courses available as it may be subject to change</p>	not specified	not specified	not specified	<p>1 year</p> <p>or</p> <p>1 semester</p> <p>Fall semester or Spring semester</p>
<p>Application procedure - deadlines : Full Academic Year or Fall Semester: from March 1st to April 30th Spring Semester: from September to November</p> <p>Description: Students are encouraged to select courses of the same year level and in the same field of study to avoid any conflict of schedule. The start and end dates of classes are different from one school to another and depend on the level at which student enter the school. Please refer to the host school to know exactly when the semester is beginning and ending. Click here to consult our academics programs.</p>				



Contact



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Research project

Field	Tuition fees	Credits	Languages	Duration & Period
ENGINEERING BIOSCIENCES COMPUTER SCIENCE	Free Gratification of approx. 600€/month	/		3 or 10 months Can be done at any moment. Students generally begin in September or February.
Application procedure : The researchers will share their list of research projects on demand.		Description - 5 main fields: <ul style="list-style-type: none"> Digital Society and Information Energy for a Sustainable Development Environment Transport Global Health and Bioengineering 		The research project can take different forms: <ul style="list-style-type: none"> A technical research project A research & development project

Short programs

ENGINEERING BIOSCIENCES COMPUTER SCIENCE	Range from 450€ to 5300€	From 2 to 12 ECTS		3 to 4 weeks On site: May/June or June/July 12 days Virtual: November or February
Application procedure : Inform your mobility coordinator in your University. He / She will confirm your nomination to INSA Lyon. Then, you can send your application online (cover letter + resume) directly to INSA Lyon.				
Discover the programs: Online Spring School 28 hrs - 2 ECTS INNOV@INSA 90 hrs - 12 ECTS 				
<ul style="list-style-type: none"> Prerequisites: This is an entry-level course. The only prerequisites are some knowledge and practical experience of computer programming, language and algorithms. Part I: Introduction to the internet of things and how it relates to smart cities. Part II: Geographical data manipulation laboratory. Activities: Virtual visit of Lyon, cooking activity. Prerequisites: Algorithmics and any programming language. Students should choose between tracks 1 and 2. Track 3 is compulsory. Track 1: Connected Devices and Smart Devices or Track 2: Management and Innovation in Europe. Track 3: French Language, Cross-Cultural Communication, Industry and Society. Activities: Guided visit of Lyon, day trips to the Beaujolais and Chamonix, cooking activity, wine and cheese tasting, shared dinner with locals, etc. 				

Exchange program



GRADUATE STUDENTS UNDERGRADUATE STUDENTS ALL SCIENCE AND ENGINEERING STUDENT	Free	25 to 30 ECTS /semester	 (B1 recommended) Courses in English to be found here	5 or 10 months Spring or Fall Semester or Whole academic year
Facultative in the exchange program :				
<ul style="list-style-type: none"> Research project 25 to 30 ECTS /semester 		<ul style="list-style-type: none"> Industrial internship Gratification of approx. 600€/month 		
Application procedure for the research project: Complete and submit your application in the Move On application.		Application procedure for the industrial internship: Tripartite agreement between INSA Lyon, the host institution and the student, to be signed by the host organization, INSA Lyon (or home institution), the trainee. Student must complete a first semester of courses at INSA Lyon before the industrial internship semester.		
Description: 9 departments Choose 1 major and 1 minor.				



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Master Advanced Mechatronics

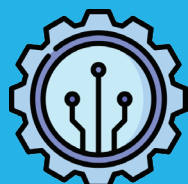
Field	Tuition fees	Credits	Languages	Duration & Period
MECHATRONIC	not specified	120 ECTS		2 years
<ul style="list-style-type: none"> The student spends 3 semesters at the university and 1 semester in a company or research laboratory for work experience <p>Description: The Master's students develop the necessary skills to meet the requirements of a multi-disciplinary project in Mechatronics and become familiar with the requirements of a research activity through blended learning.</p> <p>3 main skills are developed during the program through supervised sessions, online courses, self-study and project- and problem-based learning:</p> <ul style="list-style-type: none"> Defining and solving research problems Managing a (research) project Contributing to the design and realisation of a Mechatronic system 				

Summer weeks

MECHANICAL PRODUCTION MECHANICS MATERIALS	not specified	not specified		2 weeks
<ul style="list-style-type: none"> Franco Japanese Mechatronics's week : beginning September EIE-ENR From 9 to 16/07/2023 				

Research Project

not specified	not specified	not specified	not specified	not specified
<p>Student can do an internship in one of our laboratories :</p> <ul style="list-style-type: none"> Listic Symme Locie <p> Click here!</p>		<p>Application procedure for the research project: Students must consult the laboratories' website and if they are interested in a specific topic, they can send a CV and cover letter.</p>		



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Research Project

Field	Tuition fees	Credits	Languages	Duration & Period
BIOMEDICAL MATERIALS MECHANICAL COMPUTER SCIENCE APPLIED MATHEMATICS	Exempted if partnership agreement	Up to 30 ECTS		1 semester Fall or spring semester
Undergraduate level (last year) or graduate level				
Application procedure:	Deadlines:	Description:		
Students need to identify a research lab with links to Polytech Lyon and a researcher willing to accept them first. Once this is done, administrative services will follow up about preparation of stay	End of May for fall semester research projects; end of October for spring semester research projects	Lab internship in a Lyon 1 research lab (62 laboratories)		

Exchange program (study abroad experience)



BIOMEDICAL MATERIALS MECHANICAL COMPUTER SCIENCE INDUSTRIAL APPLIED MATHEMATICS	Exempted if partnership agreement	Up to 30 ECTS for 1 semester Up to 60 ECTS for 1 year	 French (limited offer of classes in English, please contact International services for more info); short research projects can be included and done in English	1 semester or Whole year
Undergraduate level (last year) or graduate level				
Application procedure:	Deadlines:			
Application file to be sent to International Relations service - check the page of application form	End of May for fall semester or whole year; end of October for spring semester			
Description:				
<ul style="list-style-type: none"> Students can choose a selection of courses among Polytech Lyon course offer related to their study field; possibility to choose 1 or 2 courses (max.) in other Lyon 1 departments, if class schedules allow this. Possibility of following French language classes (organized by University Central Language Department). Short research projects / semester long internships may be included (internship research to be done by the students, with guidance from International relations and Industrial relations service) 				





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Exchange program

Field	Tuition fees	Credits	Language	Duration & Period:
<p>COMPUTER SCIENCE</p> <p>ENGINEERING</p> <p>PHYSICS</p>	Exempted if partnership agreement	30 ECTS	 	<p>Fall Semester</p> <p>or</p> <p>whole year</p>

Application procedure: Between March and April (date to be confirmed) whatever the duration of the exchange (1 or 2 semesters)

Description:

TSE offers courses in 5 fields of engineering (each of them can be a minor or major) :

- Computer science
- Computer vision
- Electronics
- Photonics
- Networks & telecommunications

For your Learning Agreement, you must choose:

A major/minor combination of courses blocks (9 combinations available) and a speciality courses block. 30 ECTS credits maximum per semester

Whole year Exchange : industrial internship (spring semester) - application procedure for the industrial internship:

Tripartite agreement between Telecom saint Etienne the host institution and the student, to be signed by the host organization, Telecom Saint Etienne (or home institution), the trainee. student must complete a first semester of courses Telecom Saint Etienne before the industrial internship semester.



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