INSA Network

Lyon
Created in 1957
4 800 students

Strasbourg
Created in 2003
1 100 students

Rennes
Created in 1966
1 360 élèves

Toulouse
Created in 1963
1 900 students

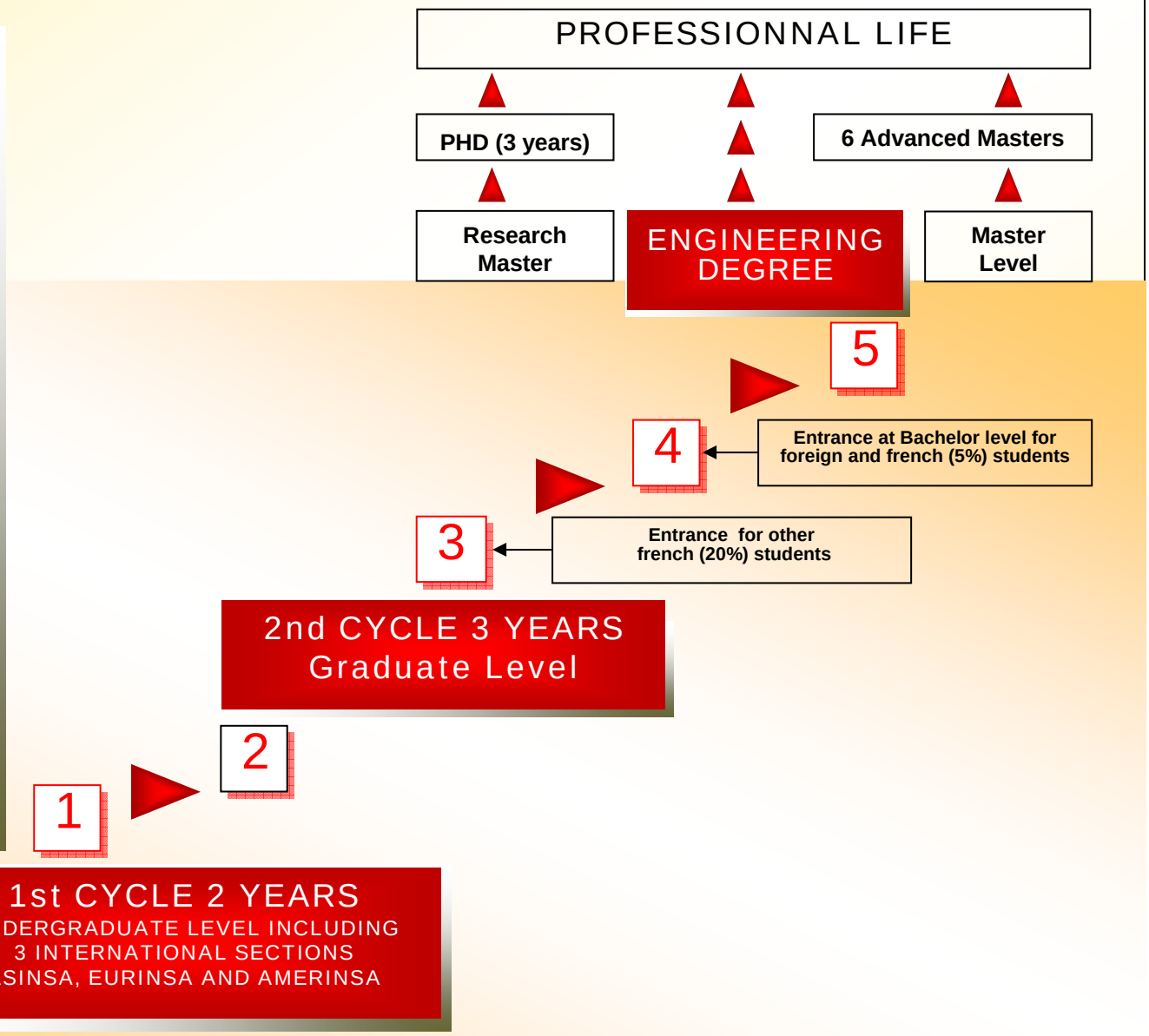
Rouen
Created in 1985
1 250 students

Location :
Science and technology parks

A 5-year programme

12 Specialized engineering fields

- Biochemistry and Biotechnology
- Bioinformatics and modelling
- Civil Engineering and Urban Development
- Electrical Engineering
- Energetics and Environmental Engineering
- Mechanical Engineering Design
- Mechanical Engineering-Development
- Mechanical Engineering and Plasturgy Processes
- Materials Science Engineering
- Industrial Engineering
- Computer Science
- Telecommunication



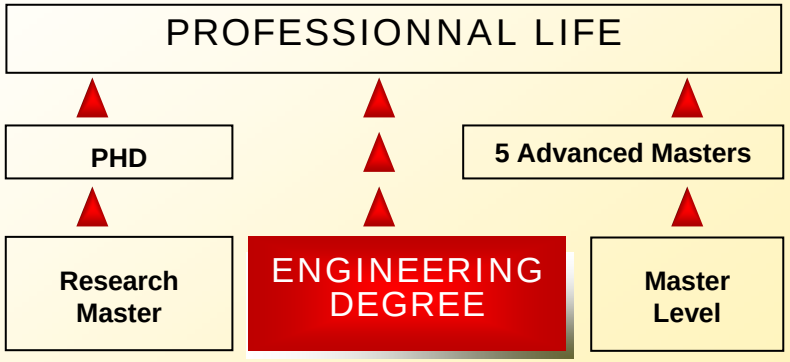
Post Master programmes

10 branches of the research Masters in Science, Technology, Health.

- Mathematics and Applications
- Informatics and Applications
- Mechanics, Energy engineering, Civil engineering, Acoustics
- Information Sciences, Electronic Systems and Devices, Electro-technical and Automation
- Materials
- Industrial and Urban Environment
- Structural and Functional Bio-chemistry
- Mathematics and Informatics applied to the Living
- Ecology, Microbial Ecology and Evolution
- Urban Planning and development

5 advanced Master's courses

- Management of the Environment
- Computer Science
- Internet Engineering
- Environmental policy, Risk and Management
- Industrial Engineering



A centre for research and socio-economic development

Technological research focused on engineering sciences:

- **Materials :** Functional Materials, Structural Materials, Civil Engineering Materials, Metals, Ceramics, Polymers
- **Mechanics :** Solid Mechanics, Structural Mechanics, Tribology, Vibrations-acoustics
- **Energy and Environment:** Systems Security, Clean Working Practices, Waste Management and Purification, Heat Transfer, Urban Engineering
- **Science and Technology of Communication and Information:** Electronic Components and Systems, Computer Science, Robotics, Micro and Nanotechnologies, Telecommunications, Data Processing
- **Biology and Health:** Health Care Engineering, Biotechnology, Biochemistry and Pharmacology, Interaction Biology, Bimolecular Synthesis

A centre for research and socio-economic development

27 research laboratories

- 575 research faculty and permanent researchers
- 240 Masters in Science, Technology, Health students of which 94 are engineering students
- 450 PhD students

- 130 theses defended each year
- 1250 publications and international communications

A dynamic international policy

The **international dimension** is the key criteria for the development of INSA Lyon

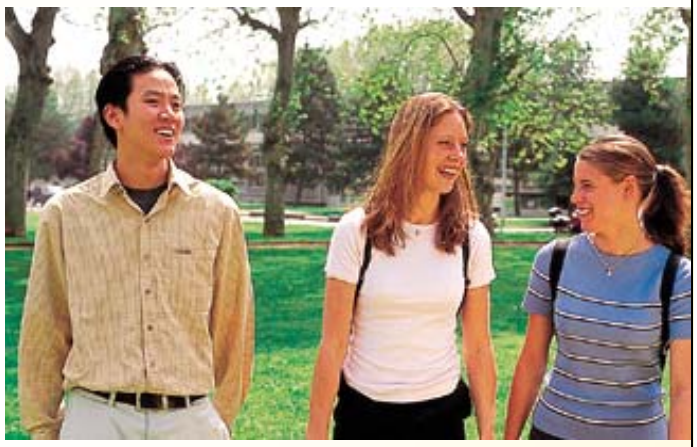
➡ A network of excellence, for education and research

➡ The international development on campus

➡ Export of expertise and know-how

A dynamic international policy

International Sections
2 years programme:



- EURINSA : (created in 1991)

  130 students per year
  1/3 french, 1/3 from EC, 1/3 others European countries

- ASINSA : (created in 1998)

  100 students per year
  1/2 french, 1/2 from Asia (China, India, Vietnam…)

- AMERINSA : (created in 2000)

  50 students per year
  1/2 french, 1/2 from Central and Latin America

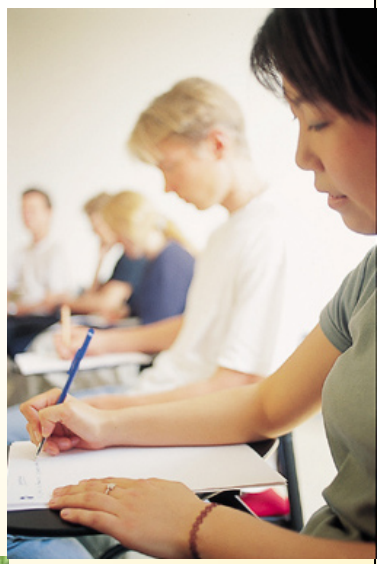
A dynamic international policy

- **10 foreign languages**
  as well as French as a foreign language are taught

- **Specific linguistic groups**

A dynamic international policy

- More than **220 partner universities** throughout the world
- Very high **mobility** rates: 76% spend one or two semesters abroad



- **Increasing numbers** of foreign students on campus:

- 80 different nationalities
-24% foreign students

INSA-Lyon: all facilities on campus

A tradition of quality and excellence focusing on:

(80% of students from outside the Lyon area)

• Residence facilities

- 3,200 beds/1,000,000 meals per year
-4 restaurant options
- 80% of accommodation facilities have been recently renovated

• Active student life: associations, sports and social clubs

- Since 1997, a large student office run by the students union which co-ordinates around 100 student clubs and associations
- 2,500 students (60% of all student) make use of these facilities.

INSA-Lyon: all the facilities of a town on a campus

Sport: part of the curriculum

- **A very active sports association**, present in the majority of French university championship finals

- **A High-Level Athlete Sports-study section, participation of INSA students in the Olympic Games**

• Well organised cultural activities encouraging strong links with the town and local area:

- an active cultural service

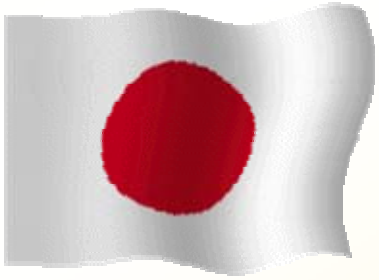
- Combined art-study sections:

- *Music/Science Studies*
- *Dance/Science Studies*
- *Theater/Science Studies*
- *Plastic arts/Science Studies*

- **"La Rotonde des Humanités"**

A cultural centre with 400 seats/20,000 spectators per year.

Cooperation with Japan



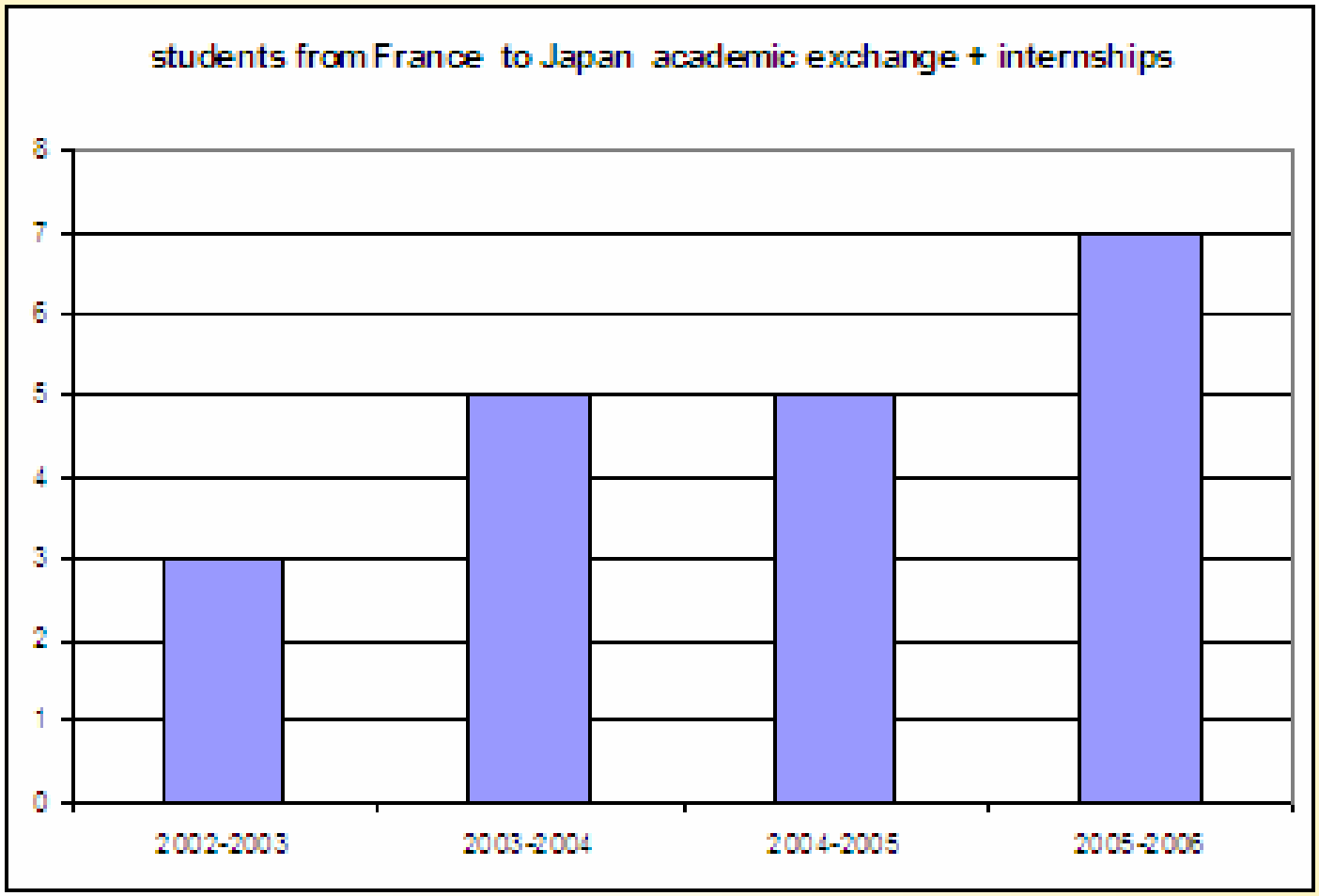
Asia is a strategic area for the international development

Japan is playing a major role in Asia

A contribution to the French-Japan exchanges

- Tohoku University
- University of Tokyo
- University of Kobe

INSA Lyon to JAPAN



DETAILS OF IMPLEMENTATION ON THE DOUBLE DEGREE PROGRAM
BETWEEN
L'INSTITUT NATIONAL DES SCIENCES APPLIQUÉES DE LYON, FRANCE
AND
TOHOKU UNIVERSITY, JAPAN

In accordance with the Memorandum on Double Degree Program signed on November 24, 2005, this Details of Implementation is to be concluded by two parties: L'Institut National Des Sciences Appliquées de Lyon hereafter referred to as INSA-Lyon on one hand and Tohoku University hereafter referred to as T.U. on the other hand:

Article 1. Quota of Students to be Exchanged

The number of students to be admitted yearly in principle will be as follows:

A- From INSA-Lyon to T.U.: maximum 6, but the total number for each department will depend upon availability.

B- From T.U. to INSA-Lyon : maximum 6.

These numbers are subject to change with mutual consent of both parties each year.

CONTRAT D'ETUDE /LEARNING AGREEMENT

NOM DE L'ETABLISSEMENT D'ORIGINE : **TOHOKU UNIVERSITY**
NAME OF SENDING INSTITUTION

Faculté/Département : **Materials Department**
Faculty /Department of

Coordinnateur ECTS du département : **Prof. Mikiko NAJIMA**
ECTS Departmental Coordinator

Tél : **+81(22)-795-7996** Télécopie/fax : **+81(22)-795-7996** e-mail : **nakajima@ied.eng.tohoku.ac.jp**

NOM DE L'ETUDIANT(E) : **ABE** Prénom : **Shunsuke**
NAME OF STUDENT First name

Date et lieu de naissance : 13/05/1983 Nationalité : Japon
Date and place of birth

Date d'inscription : 25-09-06 Numéro d'inscription : 2699261 e-mail : shunjaponais@hotmail.co.jp
Matriculation date Matriculation number

NOM DE L'ETABLISSEMENT D'ACCUEIL : **INSA DE LYON – France**
NAME OF RECEIVING INSTITUTION

Faculté / Département : **Science et Génie des Matériaux**
Faculty / Department of

Coordonnateur ECTS du Département: **M. Abdelkader SOUIFI**

Inter-Research Centers Cooperative Program (IRCP)

Intelligent Materials System for Biomedical Application and Structure Maintenance*

- **Programme supported by the JSPS and The CNRS for 3 Years 2004, 2005 2006**
- **Bilateral programm I.FS.- INSA (with others important contributors E.CL.. Tokai Univ. …)**

*Programme initiated by Emeritus Professors Junji Tani and Pierre-François Gobin

Intelligent Materials System for Biomedical Application and Structure Maintenance

3 Topics

- **Innovation of intelligent materials and systems,**
- **Fundamental study and conceptual design of intelligent artificial muscles**
- **Fundamental study and conceptual design of multifunctional sensors for system maintenance and security.**

At the end of the second year more than 20 papers published or submitted realized in the frame of parallel or common researchs

Exchanges of Students (at different levels) and of Assistant-professors are in progress and Co-directed Thesis

The proposed subjects for the Office liaison are coming from this programme

Title of research domains (IRCP program)

In progress

Wireless sensors for continuous helth monitoring INSA-LGEF

Thermal stability of amorphous materials INSA- MATEIS

Development of novel EMAT-ECT INSA-MATEIS

DLC electrodes for amperometric glucose biosensors ECL- CEGELY

Multifunctional DLC based sensors for Tribology ECL-LTDS

Hybrid composites ; towards true 'Intelligent' materials ECL-LTDS

Proposed

Advanced flow dynamics in Life science IFS,Syracuse, INSA, ECL…

Piezoelectricity and osteoblast cells growth INSA-LGEF

Failure time prediction in heterogeneous Materials INSA-MATEIS

ありがとうございます