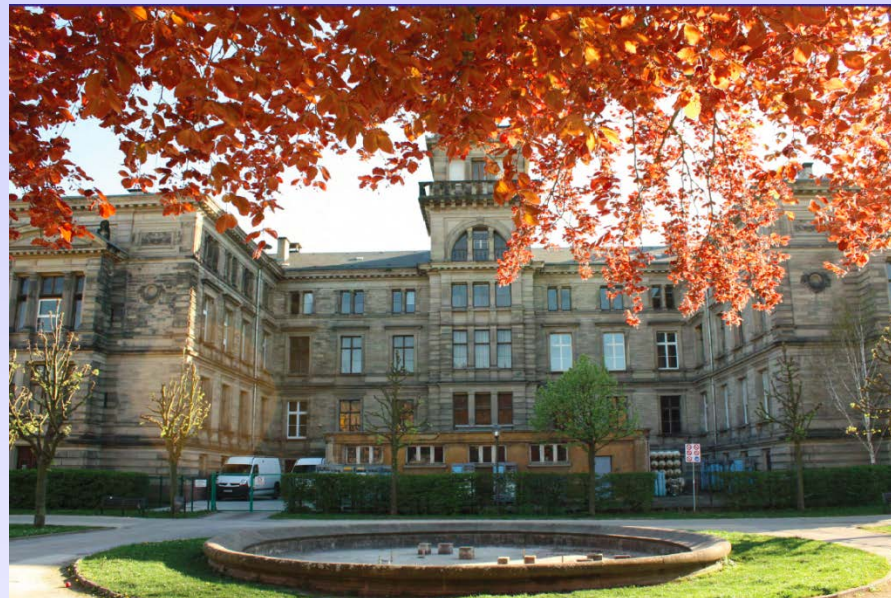


Physics and Engineering Faculty Strasbourg University

Auguste Besson (Assistant Professor)

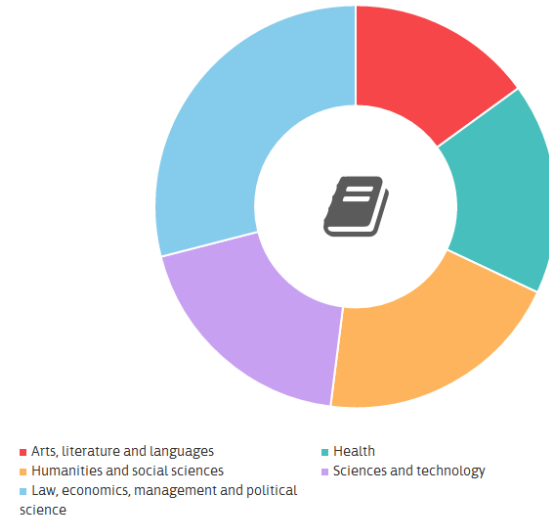


Merging of Physics Fac. and Engineering Inst. in 2009



- Founded in the 16th century
- Total student population : 46 627
 - International students enrolled at Unistra:
 - 9 062, i.e. 19,4% of the total student population
- Staff:
 - 2 778 lecturers and lecturers-researchers
 - 2 033 library, engineering, administration, technical and health staff
 - 4 856 independant contractors
 - 37 education and research departments (UFR), faculties, schools and institutes
 - 72 research units (UPR, UMR, EA)
 - 3 Nobel prizes
- Very wide range of disciplines
 - Licences (L) : 32 disciplines
 - Masters (M) : 63 disciplines, 185 specialities
 - Doctorats (D) : 37 disciplines, 144 specialities

Distribution of students by field of study



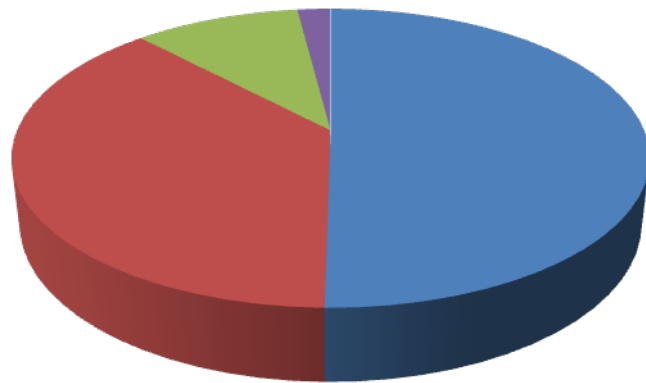
Teachers/Researchers : 200

Permanent positions : 36 PR + 54 AsPR + 7 Teachers

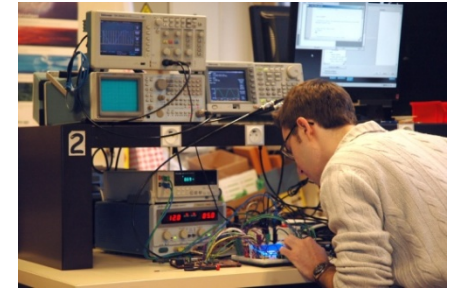
Temporary positions : 3 As-PR + 26 PhD-Teacher + 74 ext. (Industry...)

Staff : 30

Students : 1013 including 10% with industry



- 50% Master
- 38% Bachelor
- 10% Professional Bachelor
- 2% Erasmus exchange



PhD : 250

Doctorate Schools :

Physics and Chemical Physics

Mathematics, Communication Science and Engineering



- Institut Charles Sadron – (ICS)
 - 9 Teach/Res., 34 Res., 44 Eng./Tech/Adm., 33 PhD students
 - <https://www-ics.u-strasbg.fr>



- Institut de Phys. et Chimie des Matériaux de Strasbourg (IPCMS)
 - 24 Teach/Res., 40 Res., 61 Eng/Tech/Adm, 53 PhD students
 - www.ipcms.unistra.fr



- Institut Pluridisciplinaire Hubert Curien (IPHC)
 - 24 Teach/Res, 34 Res., 118 Eng/Tech/Adm, 43 PhD students
 - <http://www.iphc.cnrs.fr>



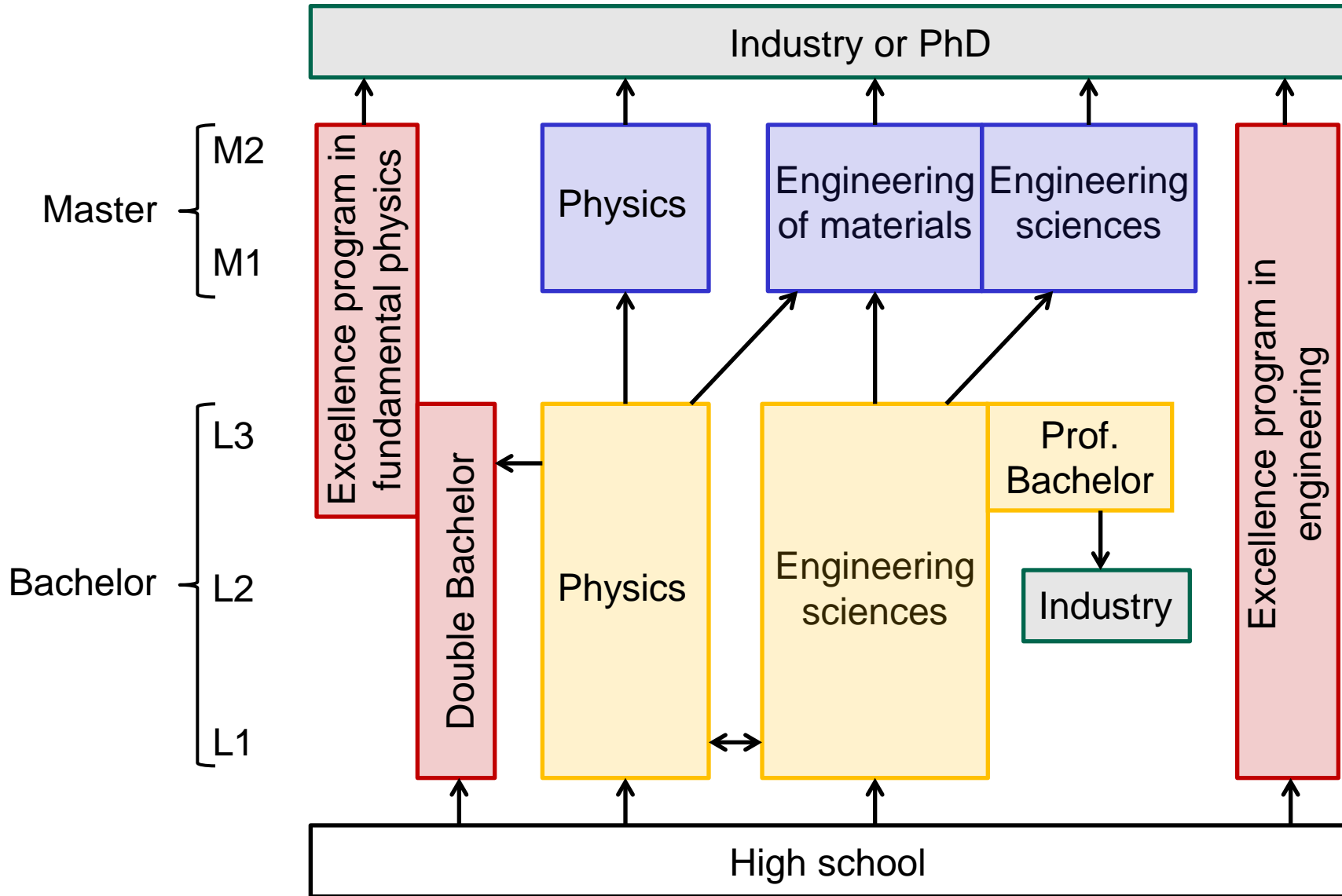
- Icube
 - ❑ Département d'Électronique du Solide, Systèmes et Photonique
 - 10 Teach/Res, 3 Res, 11 Eng/Tech/Adm, 22 PhD students
 - ❑ Département Mécanique
 - 8 Teach/Res, 6 Res, 12 Eng/Tech/Adm, 35 PhD students
 - <https://icube.unistra.fr>



⇒ Strong link between University and laboratories

- Training periods in the labs (Starting in L3)
- Many practical exercises in labs using high tech material
- PhD in many different fields

Training program



- Bachelor of Physics ⇔ Master
- Bachelor of Engineering ⇔ Master
 - Mechanics and industrial engineering
 - Electronics, Signal processing, Automation
- Professional Bachelors ⇔ Industry
 - Tools prototyping
 - Foreign installation of industrial equipment
 - Electrical energy engineering and quality
 - Nuclear technics and radio-protection
 - Optics and vision

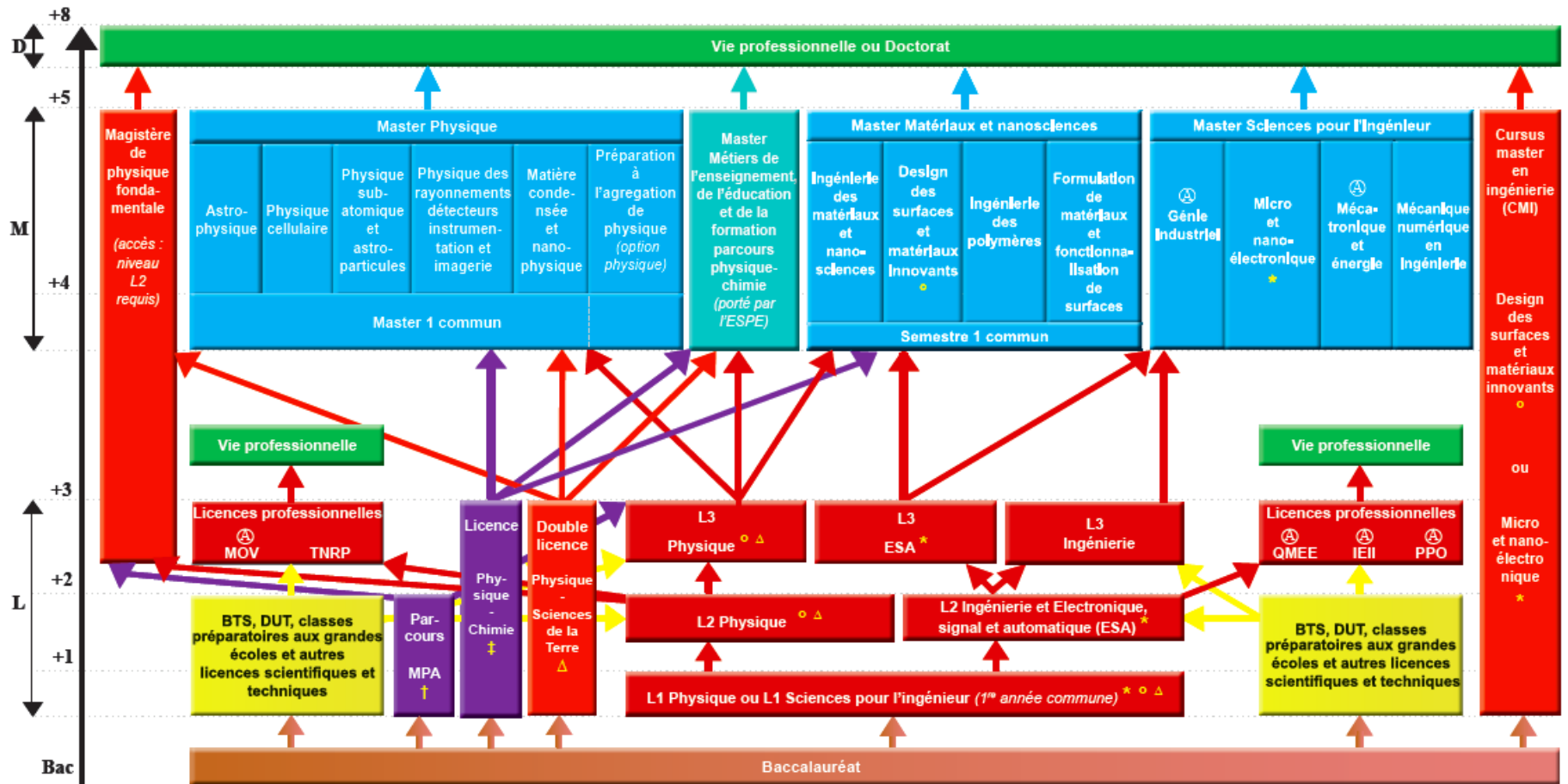
- Master of Physics
 - Condensed matter and nanophysics (in english)
 - Subatomic physics and astroparticles
 - Physics of radiation, sensors, instrumentation, and imaging
 - Cell Physics (in english)
 - Astrophysics
 - Master of Materials Engineering
 - Materials engineering and nanoscience
 - Surface engineering
 - Polymers engineering
 - Material formulation and surface functionalizing

+

 - International master program polymer science French-German
- Master of Engineering Science
 - Industrial engineering
 - Energy and mechatronics engineering
 - Micro and Nano-electronics
 - Computational engineering (in english)

- Strongly Selective programs
- Enhanced Bachelors
 - Double bachelor of Physics and Earth science
 - Bachelor of Mathematics and advanced physics
 - Bachelor of Physics and Chemistry
- 2-year international Master (with Freiburg – Germany)
 - Polymer sciences (in English)
- 3-year excellence program in Physics
 - « Magistère » of Fundamental Physics
- 5-years excellence in Engineering
 - Master of Surface Engineering
 - Master of Micro and Nano-Electronics

Detailed view



Légende :

Ⓐ formation en alternance : contrat d'apprentissage ou de professionnalisation

MOV : métiers de l'optique et de la vision

TNRP : techniques nucléaires et radioprotection

QMEE : qualité et maîtrise de l'énergie électrique

IEII : installation d'équipements industriels à l'international

PPO : prototypage de produit et d'outillage

BTS : brevet de technicien supérieur

DUT : diplôme universitaire de technologie

* : CMI micro et nano-électronique

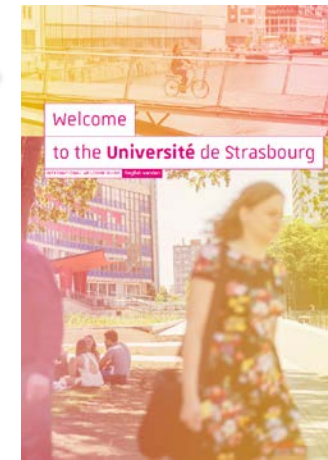
∘ : CMI design des surfaces et matériaux innovants

△ : Double licence Physique-sciences de la Terre

† Mathématiques et physique approfondies (portée par l'UFR mathématique et informatique) ‡ Physique-chimie (portée par la Faculté de chimie)

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- More infos on the web sites

- University

- <http://en.unistra.fr/index.php?id=english>

- https://www.unistra.fr/fileadmin/upload/unistra/etudes/guides/UDS_Welcome.pdf

- Physics & Engineering Faculty

- <http://www.physique-ingenierie.unistra.fr/>

- International relationship

- Contact:

- **Contact : NATHALI FERRAZ-BOIREAU**

- Tél : +33 (0)3 68 85 06 71

- ferrazboireau@unistra.fr

- And...

- Funding for students (Erasmus program)

- Training in French AND English

- Etc.

⇒ Foreign students are very welcome !

backup

- Admission sur dossier
- Magistère de Physique fondamentale (depuis 3 ans)
 - Principe:
 - Filière d'excellence en physique adossée au L3, M1 et M2
 - Poursuite naturelle en doctorat (prépa AGREG possible)
 - Effectifs: 26 en 1^e année, 8 en 2^e année, 8 en 3^e année
 - Contenu
 - Disciplinaire renforcé + options sup. + stages allongés (= +12 ECTS/an)
- Coursus Master Ingénierie (CMI)
 - Principe
 - Filière d'excellence adossée de la L1 au M2
 - Réseau national délivrant un label national CMI
 - réseau FIGURE = Formation à l'Ingénierie par des Universités de Recherche
 - 2 filières proposées (Design des surfaces et matériaux innovants / Micro et nano-électronique)
 - Contenu
 - Disciplinaire + sciences humaines
- Double Licence Physique – Sciences de la terre
 - Principe: Parcours délivrant les 2 diplômes obtenus en parallèle
 - Ouvert en 2013
 - Effectifs 2016-2017: 21 (L1), 14 (L2), 3 (L3)
 - Provenance: terminale S ou réorientation d'étudiants de CPGE