

Claude Bernard Lyon 1 University

# 2016 ANNUAL REPORT



SUPPORT  
CREATE  
SHARE



Université Claude Bernard




Lyon 1



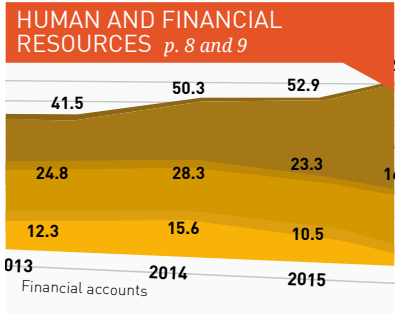
# TABLE OF CONTENTS

LYON 1 UNIVERSITY IN FIGURES  
*p. 4*

  
40,258  
STUDENTS

YEAR IN REVIEW *p. 5 to 7*

YEAR



EDUCATION *p. 10 to 13*



RESEARCH *p. 14 to 17*




INTERNATIONAL *p. 18 and 19*




SOCIO-ECONOMIC INNOVATION  
PARTNERSHIPS *p. 20 and 21*



BUILDINGS AND FACILITIES  
*p. 22 and 23*



CAMPUS LIFE *p. 24 to 27*



LIBRARY RESOURCES *p. 28 and 29*




SCIENTIFIC CULTURE *p. 30 and 31*



2017 OUTLOOK  
*p.32*

There are many events and key moments to in 2017, whose orientations will be determined by the government's higher education and research policy, as well as on the IdEx's results, which will define the pace and nature of the University's construction work. On the Doua campus, where 12 teaching buildings are under renovation. On the Lyon 1 campus, the second phase of more than 30m of construction work led by the AURA (Auvergne-Rhône-Alpes)

ORGANISATION CHART *p. 33 and 34*





# LYON 1 UNIVERSITY IN FIGURES



**40,258**  
STUDENTS



**10.4%**

foreign  
students

**134**

NATIONALITIES  
represented



**4,796**  
STAFF



**2,772**  
FACULTY  
MEMBERS  
**1,792**  
PhD STUDENTS



**65**  
RESEARCH  
LABORATORIES



**4,900**  
PUBLICATIONS



**#1**  
FRENCH  
UNIVERSITY  
IN NUMBER OF  
PATENTS SUBMITTED



**39**  
START-UPS  
LAUNCHED FROM LYON 1



**€40 M**  
IN ANNUAL  
PARTNERSHIP  
RESEARCH



BUDGET  
IMPLEMENTED  
**€421M**



**3**  
CAMPUSES  
11 SITES



**9**  
UNIVERSITY  
LIBRARIES

**Frédéric Fleury**  
President of Claude Bernard Lyon 1 University



## YEAR IN REVIEW

### New mandate and new ambition for the University

A new mandate took effect for the University's governing boards and new governance was elected in 2016, as was true of most universities in France. We chose to organise this governance around a solid and experienced team, working together to support our strategic development priorities, propose new initiatives and define objectives. Certain institutional rules needed revising to better meet current challenges, better define roles and responsibilities, and apply all dimensions of the French Higher Education and Research Act of 2013, which created an academic board and site institution groups. The University's statutes were revised to give the president the ability to form a harmonious and cohesive team that pursues shared orientations and a shared mission. The academic board has an enhanced role under the direction of its chair, who works to ensure synergy between the institution's research and education committees, and close and strong connections between research and education. The role of the Academic Board is to interface between the two committees that comprise it, research and education, and the Board of Directors, whose role is strategic and involves the definition and steering of the institution's overall policy. This organisation also meets the need to ensure a proper balance between internal steering and external representation, and to make Lyon 1's voice heard in interactions with other institutions, local governmental authorities, and French government and institutional oversight authorities. In accordance with the priorities presented to the university community, the presidential team has been expanded to develop international student mobility, the university-hospital relationship, sustainable development, administrative streamlining, staff and student quality of life, etc. The University seeks to progress, modernise and meet both scientific and socio-economic challenges, in order to guarantee its national and international reputation and positioning.

### A University in good financial health moving into the future

Claude Bernard Lyon 1 University enjoys a healthy budgetary situation with balanced operating accounts and the ability to manage and monitor its payroll and create jobs. Ten faculty-equivalent positions and 13 technical and administrative positions were created in 2016, and will be filled in 2017. With a budget of almost €420m, €68.5m in own resources provide operating cash flow of more than €20m, making it possible to invest in the modernisation of our facilities and the transformation of our campuses. With the help of government and local authority funding, more than 23,000 m<sup>2</sup> are currently under construction or renovation, and 64,000 m<sup>2</sup> are in the study phase with work planned in 2017. Lyon 1 is experiencing very strong growth of its student body, and this budget situation, which makes it one of the most efficient universities in France, allows it to accompany this growth with new job creations every year (80 in all over the past five years). This policy will remain a key priority for the institution, with the aim of anticipating and responding to the needs of the departments and central services in terms of human and financial resources, so as to maintain the highest level of education and research performance. With the arrival of a new general services director and a new accounting agent, the University is evolving with an eye to information fluidity and sharing, and to cross-cutting actions that support and develop best practices. Foundational work begun in late 2016 and which will continue in 2017, will enable

more responsive and legally secure administrative operations, to more efficiently meet the needs of the education and research structures. This modernisation includes a digital and paperless approach connected to the updating and reconfiguration of our information system, which must be revised in partnership with the site's other institutions to ensure the compatibility or creation of shared tools. At the same time, policy reflection has been launched to define the key orientations and priority actions for simplifying, modernising and monitoring process efficiency, with the goal of obtaining the European certifications that will soon be necessary for some of our education and research projects.

## A new, attractive education offer rooted in our research excellence

A new education lineup was introduced in 2016, with an accreditation for the next five years, designed on the scale of the Lyon-Saint-Etienne site. Of our 50 Master diplomas, 38 are co-accredited with other institutions, which demonstrates our links to and complementarity with the site's other universities and schools. New diplomas or courses provide an education for new professions in the fields of energy, materials chemistry, computer science and bioinformatics. Our courses' appeal and national demographic trends are driving constantly rising student numbers in science, health and technology, with more than 45,000 students registered for the academic year beginning in 2016, of more than 140 different nationalities. Our courses enjoy a reputation for excellence and digital innovation, in particular in medicine where the student quota grew by 116 spots in 2016, the strongest increase in France. Lyon 1's policy is to offer an opportunity to every bachelor, as well as to transferring students who may have failed their first year or have chosen to change their education track. The University's boards will help define a balanced policy to guarantee the acceptance of the largest number of students possible, and their best professional development. This policy will be coordinated with our academic success policy to prevent unintended failures, as well as with personalised support for students to help them design and achieve their professional goals. In this regard, we experimentally introduced "commitment and learning support contracts" in 2016 to better recognise teaching staff's investment in this area. Another priority is to offer every student the possibility of completing a portion of their coursework abroad, by fostering international mobility and foreign language practice. The University also implements innovative digital teaching methods to facilitate distance learning. The quality of our education offer is based on the excellence of our research and the investment of all staff

in their missions. Our publications increased in 2016, with pioneering results published in the biggest international journals. More than their number or the resonance of the journals, the quality of our publications is also shown by the international scientific community's recognition of our work as represented by their citation rate. Lyon 1's participation in the discovery of gravity waves not only led to some ten publications in 2016, but the primary publication was cited more than 500 times. The role of cyclosporine in the surgical treatment of myocardial infarction received 72 citations in less than a year. Research projects enjoyed excellent rates of success in obtaining French and European financing, and Lyon 1 stands out nationally with an 18% success rate with the ANR (French national research agency), with 14 European projects in 2016, and two RHU (university hospital research projects) under the PIA2 investment programme totalling almost €15m. The year 2016 was also a record year for our subsidiaries with more than €50m in project engineering activity, of which almost €15m in contracts with businesses and a rise in collaboration with SMEs of fewer than 250 employees. Claude Bernard Lyon 1 University remains the leading university in the number of patent applications submitted (INPI 2015 ranking). This shows our capacity and our potential to participate in the development of the national and regional territory, with partnerships with the socio-economic sphere remaining a priority of the institution's policy, in research and innovation as well as in basic education and lifelong learning.

## Governance-department relations under the new 2016–2020 government contract

The contract with the French government, approved by the board of directors of 21 June 2016, was signed with the ministry in late September. This contract defines the institution's main development orientations implied by the strategic priorities and priority actions. For the first time, this contract negotiation was based on a shared component developed at the level of the University of Lyon community of institutions, which defines the desired coherency and shared orientations of the site's universities and schools. This shared component also includes the institutional merger plan, with the ultimate creation of a single university which will stand independently of the IDEX project. The institutional agreement includes milestones that will constitute the touch points in the coming years at which the performance level of the institution will be evaluated. In addition to the indicators shared across all institutions, Lyon 1 University has chosen to be evaluated specifically for its block-release training, the quality of its research via the number of European contracts, the impact of research in number of patent applications, and the attractiveness of thesis offers to foreign students. Every strength of the institution will need to be mobilised to progress in all these areas. For this purpose, these indicators will be one of the elements of the goal and resource contracts drawn up with the institution's departments, which will have to reconcile their own development priorities with those defined strategically at the level of the institution.

## The University's exemplary employment and social policy

Claude Bernard Lyon 1 University remains a model employer in terms of dialogue as well as of initiatives undertaken for staff. These include the many cultural and sports activities offered, as well as a recognition of staff dedication thanks to an evolving compensation system in 2016, as will be the case again in 2017. The University is and will remain attentive to the health and well-being of staff thanks to the addition of a half-time social worker position and a third occupational health physician on the medical-social team. Assistance to staff and departments also included an increased budget line to enable the temporary replacement of absent tenured staff, thus guaranteeing service continuity and preventing work overload. Particular attention has also been given to students, notably those experiencing difficulties or unstable situations, with the creation of an additional social worker position and a restructuring of the occupational health department. All these initiatives put Lyon 1 among the top performers nationally for its social policy.

The University wanted its HR policy to be better connected to the departments and research units. A series of measures was taken to respond to the risk of terrorist attacks, for the safety of staff and students, in particular the recruitment of a security specialist. Here too, Lyon 1 is a leader at the national level. Recognising and highlighting the skill and dedication of staff is one of the university's priorities, with the aim of creating an institution where every individual feels included and professionally fulfilled.

Reflection on sustainable development has begun under the direction of a project manager, to draft an action plan for the institution's certification (Plan Vert), promote soft commutes and support the energy transition via energy policy choices for public contracts. Lyon 1 has therefore entered into agreements with energy suppliers that guarantee a 50% green energy offer.

The university is, via its research and education orientations, fundamentally oriented towards crucial social issues such as digital, energy, nanotechnologies, green chemistry, environment, global health, and education. It has a duty to model environmental stewardship by adopting sustainable development as a foundational feature of its work and committing to the energy transition and ecological awareness.

## Lyon 1 – a key player in the transformation of the Lyon-Saint-Etienne university site

France has been engaged in a profound transformation of its higher education and research landscape in recent years, and the Lyon-Saint-Etienne site is fully engaged in this change via the creation of the Lyon University higher education and research institution. A new phase, the focus of the IDEX project submitted in late 2016, involving more than €30m in annual financing, supports this organisation with the creation of a single, world-class, multidisciplinary university, which is crucial to supporting the central missions of our institutions. Claude Bernard Lyon 1 University has strongly invested in the success of this project, by actively participating in the development of the site policy, and cementing its support with two favourable Board of Directors votes in June and November. This project is also motivated by the desire to propose a more extensive and clearer education offer, with multidisciplinary tracks consistent with our changing society, and which will support increased connections between our courses and the socio-economic sphere. This is a huge challenge that requires significant change for our institutions. The IDEX will benefit our research, because only a large multidisciplinary university with a cross-cutting approach can achieve global recognition, as well as a fresh source of motivation and pride for staff, who will see renewed interest in their work. This project will have a positive impact on student education via the development of new courses that are better adapted to social issues, which are generally multidisciplinary and cross-disciplinary.

Frédéric Fleury





# HUMAN AND FINANCIAL RESOURCES

Claude Bernard Lyon 1 University was one of the 18 pilot institutions in the first wave to switch to the GBCP accounting framework, using a new tool (SIFAC). This project was a major success, because Lyon 1 was one of the first universities to make its 2016 budget available during the very first days of January. In addition, the quality of budget forecasts and payroll monitoring enables Lyon 1 to pursue a sustained and targeted recruitment policy as part of its annual employment campaign, a key moment of dialogue with the departments.

## HUMAN RESOURCES

### An active recruiting policy

The quality of budget forecasting and payroll monitoring enables Lyon 1 to pursue a sustained and targeted recruiting policy as part of its annual employment campaign, a key moment of dialogue with the departments: in the academic year that just ended, 68 civil servant faculty members and 49 temporary education and research staff (ATER) joined the University, along with 101 permanent library, engineering, administrative, technical, medical and social (BIATSS) staff. Support for research and education was also apparent in the hiring of contract workers with competencies in various fields: contract teaching staff, doctoral and post-doctoral students, guest professors and BIATSS.

In addition, the arrival of a staff disability officer helped strengthen the recruitment of workers with disabilities: in 2016, seven positions were reserved under the government programme in this area. This approach will continue in 2017. Attention is also paid to supporting and raising awareness of disabilities both individually, by adapting jobs, and collectively via the organisation of communication initiatives and training on this topic.

To support its staff in their career plans, Claude Bernard Lyon 1 University also focused in 2016 on expanding the training offer, with a 9% boost of the training budget. Their access to continuing education allowed 96 staff to access a higher grade via competitive examination or professional evaluation.

Lastly, Claude Bernard Lyon 1 University has worked hard to develop a remuneration scheme that incorporates hardship and professional engagement considerations, with rating criteria defined for AENES staff.

This project will continue in 2017 for ITRF personnel.

### Genuine quality of life at work

Human resources management that is attentive to the quality of life at work for all staff is a priority for Lyon 1.

It is supported by a rich dialogue with employees that takes place in the regular technical committees (seven annual technical committee and four health, safety and working conditions committee meetings), as well as more informally during monthly meetings and working groups on current issues impacting staff (eight working groups).

Our social policy offers strong support for university staff: there are 13 restaurants available to staff at Lyon 1, a strong policy of assistance for staff with children, and a wide variety of sports and cultural activities.

The medical-social team supporting staff is expanding (addition of a half-time social worker position and a third occupational health physician).

The work conducted by the work situations study group (GEST) helps in preventing difficulties encountered in the workplace and resolving complex situations, while the alcohol and substance abuse group (GRASP) supports an addiction prevention policy. In an overarching and active approach to improving quality of life at work, Lyon 1 wanted to innovate by implementing a telecommuting system to help staff better manage their work-life balance. Joint reflection with the various stakeholders enabled the development of a telecommuting charter that defines the conditions for its one-year pilot implementation.

The board of directors strongly supported the implementation of this system, which will take effect at the start of 2017.

## FINANCIAL RESOURCES

### The GBCP reform: Lyon 1, pilot institution

Claude Bernard Lyon 1 University was one of the first universities to switch to the new budget and accounting framework introduced by the French public budget and accounting management decree (GBCP).

Following a successful technical phase (the 2016 budgetary reopening date for Lyon 1 was one of the earliest), the University was able to leverage this new framework to strengthen the quality of its budget planning via a multi-year approach to expenditures, full programming of its purchasing processes, and in-depth reflection on the budgetary sustainability of this planning via monthly monitoring committees. The implementation of GBCP also shortened budget closing via possible orders until 20 December 2016 and availability of credits starting on 3 January 2017.

### Purchasing policy and supplier relations

Claude Bernard Lyon 1 University rolled out its purchasing policy in 2015. New tools are available to the university community: an annual purchasing map that helps analyse the purchasing behaviours of the internal structures, and an annual action plan that aims to improve the purchasing policy and conduct targeted, visible and efficient initiatives for all. The new business travel policy, for example, is highly attractive and benefits all Lyon 1 agents.

Initiatives have been undertaken to support staff with disabilities, in very close collaboration with the financial services and human resources departments, together with the Disabilities mission.

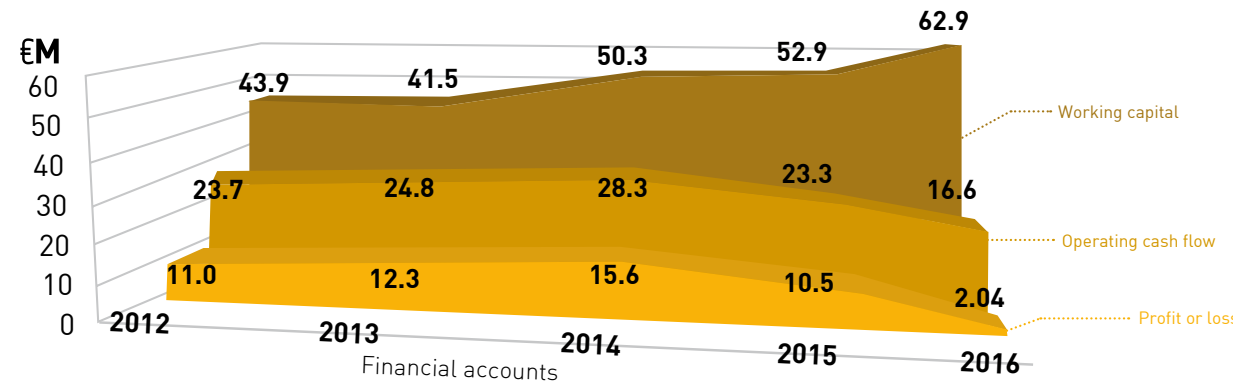
The purchasing policy is fully aligned with the institution's policy and budget development.

In 2017 a conference will be created to regularly bring suppliers together with the University's governance, in connection with the socio-economic partnerships unit.

### Service to users

Lyon 1 has implemented a number of tools to support faculty members, teachers and BIATSS staff, while remaining attentive to the quality of service to users.

Along with the financial and accounting chain simplification desired by the board of directors, service contracts are currently being rolled out between the management units and the departments and research units, in which the financial departments commit to a certain level of quality for the services they provide. Implementation of the budget planning stipulated by GBCP also creates greater readability for users, in particular in terms of work planning, research contracts, continuing education contracts and public contracts. The financial departments are thus providing users with forums for discussion and contact where they can share their thoughts.



€ 400,000  
IN SUBSTITUTION  
C R E D I T S

20  
JOBS  
CREATED  
DURING THE  
2017 CAMPAIGN

AVERAGE RATE  
OF TRAINING DAYS  
PER AGENT  
INCREASING

2015  
2.13

2016  
2.19

# EDUCATION

Claude Bernard Lyon 1 University introduced its new education offer with new diplomas in the 2016-2017 academic year. The appeal of Lyon 1 courses remains strong, and led to further 4% growth of the student body this year.

## Lyon 1 Business Forum: the University supporting students' professional integration

In partnership with the Orientation and Integration Department, the Faculty of Science and Technologies and the Polytech school organised the Lyon 1 Business Forum on 17 November 2016 at the Double-Mixte conference centre on the Lyon Tech La Doua campus. This forum was an opportunity to show companies the breadth of education courses at Lyon 1 and the skill of its graduates, as well as to develop new university-business partnerships and provide students with the chance to find internship or employment offers. This year, 1,800 visitors and 250 professionals were able to explore 70 business and non-profit booths, three human resources coaching workshops, ten lectures by UCBL graduates presenting their career paths and the value of joint study and dual diplomas, and four round tables on employment and soft skills.

## Hybrid courses appeal to students

Support from the iCAP department to teachers and teaching teams for innovative teaching practices was formalised in 2016 with the creation of hybrid courses.

These are courses that alternate classroom-based lectures with distance learning sessions. They utilise new learning strategies that require changes in instructional practices, in particular students assistance in learning to use digital tools. Almost 3,500 student benefited from these courses in 2016. Student satisfaction with this new formula, which allows them to learn and progress at their own rate, is at 87%. This approach also gives them visibility over their learning progress through regular evaluations.

## Student success at the heart of Lyon 1 policy

The new governance of Claude Bernard Lyon 1 University created "commitment and learning support contracts" for students in the first year of bachelor studies. This system supplements existing supports, such as teaching advisors, student tutoring and the "bachelor success plan", by providing personalised tracking for students who are experiencing difficulties during their initial year at university. Since the start of the 2016 academic year, 20 teachers have been contributing to this scheme by committing to additional instructional time above and beyond that otherwise required by contract. These teachers each work with a small group of students and actively participate in thinking about instruction innovation at the bachelor level, learning and transmission of knowledge. This experimental approach will be assessed after the two-year pilot period.

## The University expands its "Réussir" system

In 2016, this system was strengthened through the creation of the University Reorientation Semester which replaces the specialisation (S2D) and discovery semesters (S2S) and supplements the rebound systems put in place in 2015.

While the purpose remains the same, i.e. to enable students to change orientation after their first semester, the University is dedicating additional resources, with 180 students involved (compared with 40 in S2D + S2S). Of the 84 students who replied to the tracking surveys, 32 were able to reorient towards University Technology Diploma courses, two-year BTS certificates, or nursing degrees; the others matriculated into a bachelor at Lyon 1 or another institution.

The other pathway of Réussir Lyon 1, the Preparatory University Year, was maintained. It offers students arriving from technological and vocational tracks the chance to gain the necessary core knowledge for succeeding in a university course.

Lastly, the "BTS bridge" created last year was maintained.

In 2016, one-third of Lyon 1 applicants were admitted into two-year BTS courses.

## Re-engineering of the healthcare professions

The expansion of university higher education to cover healthcare and paramedical professions involves the gradual integration of these courses into the Bologna process, leading to the acquisition of a university diploma (bachelor or master as appropriate to the education level). A collaboration has been initiated between the three Rhône-Alpes universities (Lyon 1, Grenoble 1 and Saint-Etienne) to develop and pool the teaching modules available online. The goal is to offer students access to a wide range of distance resources. An agreement anchoring this partnership, whose drafting began in 2016, will soon be signed by the universities, the Auvergne-Rhône Alpes Region and the IFSIs. Three of the five teaching modules developed by the UCBL were brought online for the 2016 academic year, with the remaining two to follow by the start of the 2017 academic year.



© Eric Le Roux

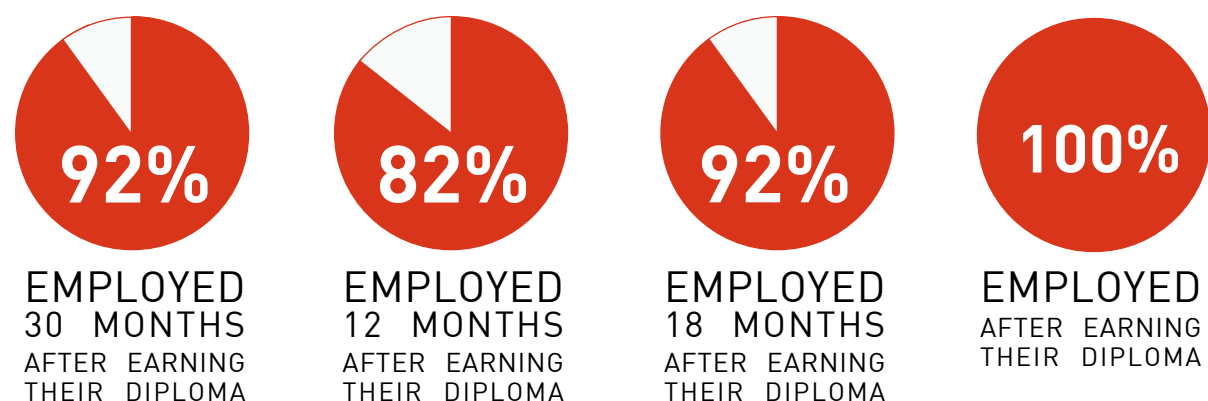




## NUMBER OF GRADUATES IN 2015-2016

<b>1,042</b>	<b>1,863</b>	<b>152</b>	<b>1,698</b>
PROFESSIONAL <b>BACHELOR</b> GRADUATES	<b>MASTER</b> GRADUATES	<b>ENGINEERING</b> GRADUATES	<b>HEALTHCARE</b> GRADUATES

## PROFESSIONAL INTEGRATION AT LYON 1



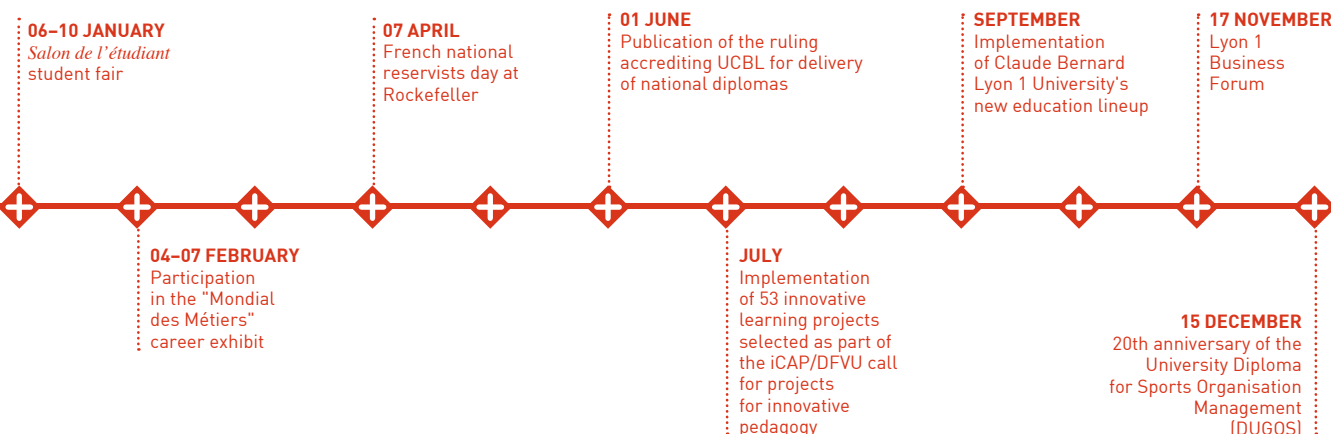
*Data calculated from a survey of the 2014 graduating class*

## Quality at the service of all continuing education stakeholders

The continuing education and block-release training (FOCAL) department at Claude Bernard Lyon 1 University is engaged in a quality process. The aim of this approach is to improve the relationships and trust that exist among partners in continuing education and lifelong learning, as well as to increase permeability between the academic and socio-economic spheres. Training quality is one of the goals of the 2014 reform of professional education. The French Act of 05 March 2014 and its implementing decree of 30 June 2015 strengthen the quality control actions of education funders via criteria for assessing education providers' ability to offer a quality education. In 2017 the "certification of university continuing education services" will respond to the quality decree and provide the proof of service quality expected by funders, and to confirm the commitment of Lyon 1 and its FOCAL department to continuous improvement of the services it offers.

## Thriving continuing education

A very large number of new block-release courses were launched at the start of the 2016 academic year. Twenty new diplomas (12 master diplomas, two engineering diplomas, four professional bachelor diplomas and two university diplomas) are open to block-release students under professional development contracts, or apprenticeship contracts in the science and technology fields, and eight university diplomas and 54 short degrees in the healthcare sector. These evolutions were praised by the French Secretary of State for Higher Education and Research, Thierry Mandon, during his tour of the University of Lyon (UdL) premises on 10 October 2016. Lyon 1 believes that continuing education and lifelong learning form a core feature of its public service mission, and their development an essential goal. Continuing education is also a central focus for the University of Lyon. Lyon 1 contributed to the development of a UdL project under a call for interest that was selected by a panel in January 2016 to provide UdL with "continuing education centre" certification.



© Eric Le Roux

**106**  
BLOCK-RELEASE  
COURSES

**45**  
APPRENTICESHIP  
COURSES

**280**  
CONTINUING  
PROFESSIONAL  
DEVELOPMENT  
PROGRAMMES

**+8.4%**  
OF THE LYON 1  
STUDENT  
BODY ENROLLED IN  
CONTINUING EDUCATION  
AT THE START OF THE  
2016 ACADEMIC YEAR



# RESEARCH

Claude Bernard Lyon 1 University is a major French academic research centre. Its scientific policy is rooted in the quality and multidisciplinary of its research, within a broad disciplinary spectrum covering every field of science and technology, healthcare, and some areas of human and social sciences.

## Gravity waves – Lyon 1's crucial contribution

In 2016, Claude Bernard Lyon 1 University was once again recognised for its high-level multidisciplinary scientific production, able to respond to current societal issues as well as move basic knowledge forward. Lyon 1 University was associated with the first observations of gravity waves at the end of 2015, via the LMA advanced materials laboratory (Laboratoire des Matériaux Avancés) whose director is a faculty member at our institution. Researchers and experts from Lyon 1 were among the authors of the primary publication in *Physical Review Letters*. LMA made a significant contribution to this discovery by fabricating the large mirrors for the Fabry-Pérot cavities (diameter 34 cm, thickness 20 cm, 40 kg) of the two Advanced LIGO interferometers. These were the interferometer's most critical optical elements, with specifications at the cutting edge of current technology. This achievement was the culmination of almost five years of work for LMA.

## A LAGEP researcher cited 1,169 times in 2016

A researcher in pharmacotechnology engineering at the Laboratory of Automatic Control and Chemical Engineering (LAGEP) and lecturer at the Lyon 1 University Pharmacy Faculty, Professor Hatem Fessi was named one of the 2016 Highly Cited Researchers by Thompson Reuters. This year, Prof. Fessi was cited 1,169 times by researchers around the world: as a specialist in drug vectorisation, he is the author of some sixty patents for technologies that are widely used today in both private and academic research. With more than 10,000 citations over the course of his career, Prof. Hatem Fessi's international renown has led him to provide his expertise to many international organisations and to supervise some 50 doctoral theses. The Thompson Reuters Highly Cited Researchers list highlights the international scientists who are most cited by their peers each year, using data drawn from the bibliographic Web of Science database. Web of Science is owned by Canadian publisher Thompson Reuters, and inventories the content and citations of more than 10,000 peer-reviewed scientific journals.

## A Lyon 1 PhD student makes the cover of *Nature*

Young geologist Claire Mallard, in her final thesis year at the Lyon Geology Laboratory Terre, Planètes, Environnement, made the news in July 2016 with the publication of her first-ever scientific article in the journal *Nature*. Her article was even chosen to grace the cover of this prestigious publication. A doctoral student on the AUGURY team under Prof. Nicolas Coltice for a project funded by the European Research Council, Claire Mallard works on the collective movements of the earth's mantle. AUGURY is essentially a modelling project. Nicolas Coltice's team is trying to develop tools for simultaneously using theoretical models and tectonic plate data. For her contribution, Claire Mallard expanded her initial qualifications in oil geology to develop skills in coding and digital simulation. In her article for *Nature*, she presented her original methodology (new data, development of new tools) and initial results. The AUGURY project was launched in 2013 and has given rise to several publications, including two in *Nature*.

## Lyon 1 joins the HCL/bioMérieux joint laboratory

In 2016 Lyon 1 joined the Hospices Civils de Lyon and bioMérieux in two joint laboratories. These bring together some forty clinicians, researchers and PhD students within the hospital, around the theme of immunosuppression and risk of infection for hospitalised patients. The researchers will be able to take advantage of a unique biobank of 15,000 clinical specimens. Claude Bernard Lyon 1 University brings an additional upstream research dimension for understanding the physiopathological mechanisms related to the development of induced immune changes, developing new tools for monitoring immune status and new treatment approaches. Its addition to the joint laboratories will create new experimental tracks, such as the development of an animal model for septic shock. It will also serve to develop the integration of students into these teams. Sepsis as a result of serious infection causes as many deaths each year as myocardial infarction.



© Eric Le Roux

50  
NEW PATENTS  
SUBMITTED

€16M  
IN INDUSTRIAL  
CONTRACTS

€7.6M  
IN EUROPEAN  
FUNDING

4,533  
PUBLICATIONS  
IN PEER-REVIEWED  
JOURNALS

20  
ASSOCIATED  
INTERNATIONAL  
LABORATORIES



# CENS-ELI, developing research and innovation in health and nutrition

The future CENS-ELI, public-private research and innovation cluster in nutrition and health, was given official go-ahead in September 2016. With 9 million in funding from Métropole de Lyon and the Auvergne-Rhône-Alpes region as part of the Campus plan, in 2018 this original project will bring together the teams of the European Lymphoma Institute (ELI), the CarMeN (cardiometabolism and nutrition) laboratory, the Research Centre for Human Nutrition (CENS) and the Institut Paul Bocuse Research Centre. This structure, unique in France, will house in a 6,000 m² building a metabolic kitchen, a restaurant for nutritional intervention studies and an exercise room for applied research in lifestyle improvement. CENS-ELI's more than 180 researchers and clinicians will seek to strengthen interactions between cognitive, behavioural and clinical research. Pre-competitive and applied research projects will also be conducted there with preferred partners selected for their complementarity: French, European and international research clusters, and players from the agri-food and pharmaceutical, biotech or banking and insurance industries.

## Inauguration of IngeLySE

The Lyon-Saint-Etienne engineering federation IngeLySE was inaugurated in October 2016. This grouping of 23 laboratories, the largest in France in this field with more than 2,000 people, seeks to promote collaborative research to address four key areas of social challenge: mobility, transportation, aeronautics and aerospace; energy and environment; life sciences engineering; tools and systems for the digital society. The Federation represented the Engineering community within the University of Lyon during the construction of the IDEX project: active participation in defining key themes related to its academic expertise, creation of the Engineering and Technology and Natural and Health Sciences Colleges, participation in the AEILYS site's Alliance of Grandes Écoles. IngeLySe also participates in the Engineering and Science Lyon Tohoku Laboratory (ELyT) with the University of Tohoku in Japan.

# Lyon Informatics Federation, basic research at the heart of the digital society

Derived from applied mathematics and electronics, born of a technological and industrial purpose, today informatics is a scientific discipline all its own. The Lyon Informatics Federation (FIL) was founded in 2016 from three laboratories, of which two (LIRIS and LIP Computer Science Laboratory) are part of Lyon 1 University. FIL organises its research activities around five key themes: images and graphic informatics, distributed informatics and high performance calculation, basic informatics, data masses and systems, networks and telecommunications. These reflect the issues facing our digital society, and the new scientific challenges born of the interaction of computer science with other disciplines (physics, biology, human and social sciences). In the future, FIL will also play an interface role with industrial firms (IBM, Xerox and Google are already partnering with the various associated laboratories). Lastly, FIL has a vocation to contribute to regional development, for example via Métropole de Lyon's Smart City initiative. It also conducts scientific education initiatives.

## Innovation: Lyon 1 at the top of the class

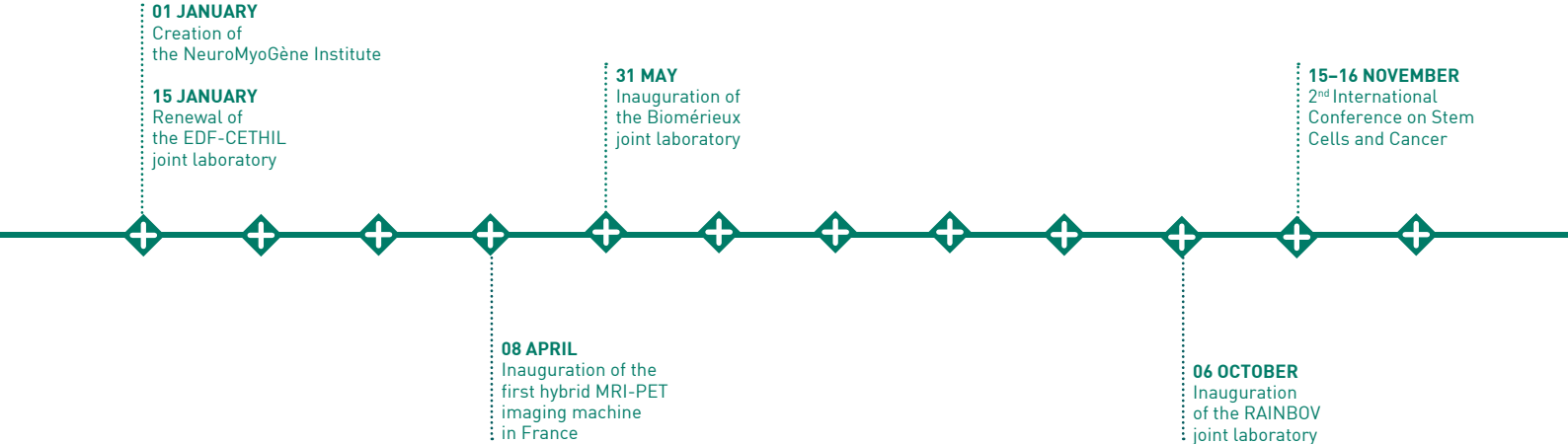
The quality of basic research at Lyon 1 University fosters its dynamic success in application. This was expressed once again this year in the institution's excellent performance in national and international innovation rankings.

In 2016, Claude Bernard Lyon 1 University was the leading French university for patent applications with INPI, and rose to first place in the international U-Multirank ranking of almost 1,300 universities, in the "economic engagement" category.

Lyon 1 is also included in six of the seven international Shanghai Ranking categories: chemical engineering, electrical and electrotechnical engineering, energy engineering and sciences, environmental engineering and sciences, materials engineering and sciences, and interdisciplinary research in sports sciences.



© Eric Le Roux



  
**42**  
MEMBERS  
OF THE INSTITUT  
UNIVERSITAIRE  
DE FRANCE

IMPACT INDEX IN  
THE HUMAN  
SCIENCES:  
**2**

  
**LYON 1**  
PUBLISHES **9%**  
OF FRENCH  
MEDICAL  
RESEARCH

**339**  
DISSERTATIONS  
DEFENDED



# INTERNATIONAL RELATIONS

Lyon 1's international policy vision is guided by a pursuit of mobility, as its governance believes that mixing ideas and people nourishes scientific excellence, tolerance and peaceful coexistence. Two new jobs were created in this area in 2016: a vice president for international mobility and an international cooperation manager.

## Fostering mobility

For students, a transverse "successful mobility" Teaching Unit (UE) was created in 2016 which will grant two ECTS credits to students who design and complete a mobility project. Students selected for 2016–2017 mobilities, via exchange programme or internship with an English-speaking institution, received a grant from the International Relations Department after taking the TOEFL. This grant reimbursed them for the test registration fees. Additional initiatives will follow. For faculty members, a new system for welcoming prestigious guest professors and researchers at Lyon 1 was created, in which they were invited to meetings to help them make contacts in their field of research and foster the development of cross-institutional synergies. These foreign researchers were also invited to receptions at the University of Lyon via the Ulys system. Elsewhere, under Erasmus+, funding was allocated in 2016 for nine instructor mobilities and a call for applicants specific to administrative personnel was launched.

## Supporting international events

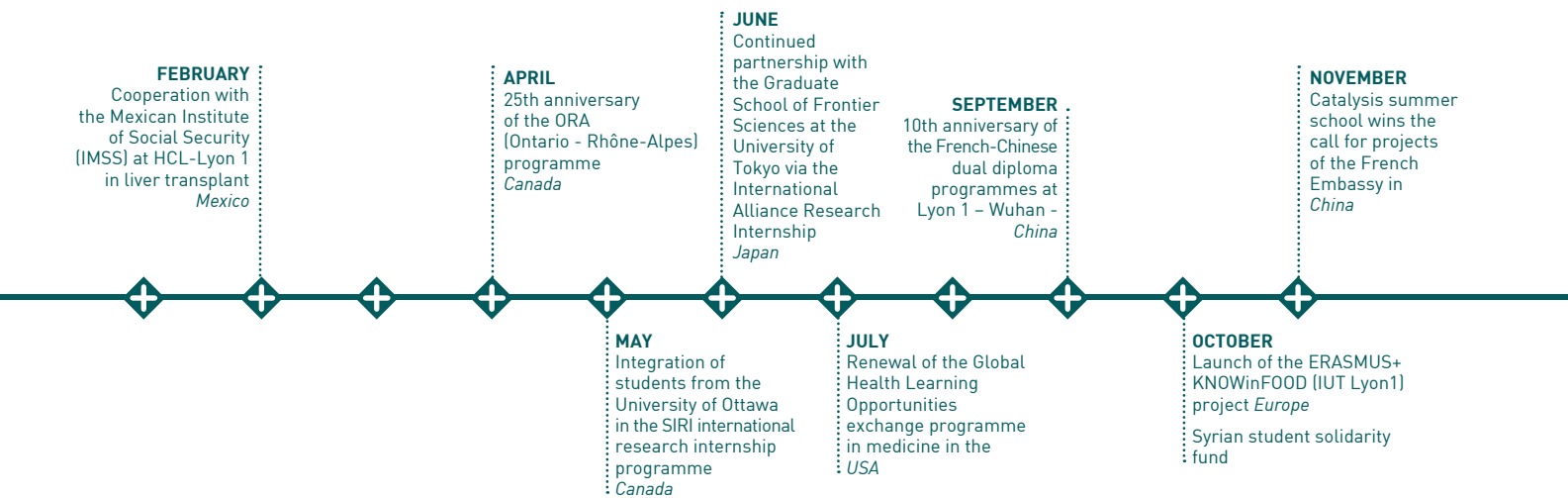
In its international relations, Lyon 1 particularly highlights events organised by the departments and laboratories for student, teacher, researcher and professional audiences around the world. These events strongly contribute to the University's international reputation, and reflect the dynamic production of its teams. Thirty-two events (summer universities, seminars, conferences, workshops) were identified in 2016, with 3,800 participants, half of which were from abroad. In addition, the "Summer Schools" call for projects led to co-funding of ten summer schools.

## International partnership courses

Lyon 1 continued to pursue the internationalisation of its courses in 2016, first by renewing and consolidating existing dual diploma or delocalised courses with its foreign partners as part of the new accreditations. New partnerships and European programmes were also implemented: as the year 2016 comes to an end, Lyon 1 numbers 29 courses in which students earn two diplomas (from Lyon 1 and the partner institution), ten courses conducted abroad (delocalised or joint degree) and three Erasmus Mundus (two joint masters, one joint PhD). The LIVE Master, Erasmus+ Mundus in vaccinology, which Lyon 1 coordinates, welcomed its first cohort of 23 students during the Masters 1 integration week in September 2016, before their first mobility at Barcelona Autonomous University (UAB). They will continue their studies in 2017 at the University of Antwerp, and then at Lyon 1 in Master 2.



© Eric Le Roux



85 NATIONALITIES AMONG STUDENTS IN MOBILITY

140 COOPERATION AGREEMENTS IN 49 COUNTRIES (OUTSIDE EUROPE)

316 ERASMUS+ AGREEMENTS IN 27 COUNTRIES

1,242 MOBILITY GRANTS ALLOCATED

1,656 STUDENT MOBILITIES INCOMING/OUTGOING



Services, technology application and transfer contracts, partnerships, collaborations, spin-offs, active participation in competitiveness clusters and technology platforms – for years, Claude Bernard Lyon 1 University has pursued numerous connections with small, medium-sized and large companies, via its subsidiaries Llp and Ezus Lyon, in collaboration with its socio-economic partnerships mission and the SATT (technology transfer acceleration company) Pulsalys.

## Multiple industrial partnerships

Lyon 1 University's goal in finding coherent public-private partnership spaces, is clearly to strengthen partnerships via the involvement of networks such as the Carnot Institutes (I@L, LISA, CALYM) and the competitiveness clusters, to create tools and infrastructures, and to actively participate in the development of technology platforms. This is notably the case for innovation clusters such as Axel'one, technological innovation platforms such as 3DFab, Cristal'innov and PTI Emballage (Alimentec), and technology platforms such as ILM Tech et VirNext. Thanks to its application subsidiaries, in 2016 the university registered a total of 562 contracted research operations, comprising 201 collaboration contracts and 361 service contracts, with 250 different companies, including very large industrial partners such as Hutchinson, Bayer, OM Pharma, Sanofi Aventis, Sanofi Pasteur, Siemens Healthcare, Poxel, Rhodia, Total, Braskem, Roche, etc. At E51.7 million, the Research partnership activity in 2016 was the largest ever registered since the creation of LIP. The previous record was E43.8 million in 2011.

## From very large companies to SME/SOHO

Claude Bernard Lyon 1 University, with the support of the SATT, encourages the emergence and facilitates the development of spin-offs (AxoScience, VirHealth, NH TheraguiX, Glincs, etc.) by offering them hosting solutions, helping researchers and faculty members found companies, and making investments that benefit spin-offs. Lyon 1 University also guarantees favourable conditions for exploitation by creating companies for the intellectual property developed in laboratories, whether through co-development with spin-offs and/or maturation of this intellectual property. Lyon 1 relies on the Carnot programme provisions for SMEs and SOHOs, such as the "Filières" projects that seek to amplify the impact of the Carnot Institutes on French SME and SOHO innovation by structuring their offer of expertise and technologies to meet the needs of business. The institution also takes very active part in the various levels of operations of the competitiveness clusters, resulting in collaborative research infrastructures. These tools enable SMEs to access technological resources and share spaces and time with our laboratories, under projects such as those funded by the Single Ministerial Fund (FUI). These collaborative spaces foster the transfer of our expertise to SMEs and small office/home office businesses (SOHO), as well as the integration of PhD graduates into the SMEs.

## IDEE programme

Claude Bernard Lyon 1 University (UCBL) is a partner to the IDEE "innovation and endogenous business development" programme sponsored by the UIMM metallurgy industries association with the support of the F2i fund for innovation in industry. The contacts established with the Rhône branch of the UIMM at the end of 2013 via this partnership agreement made it possible to formalise an initial research collaboration in March 2015 between UCBL and an SME-SMI member of the UIMM, for a three-year period and E75,000. The laboratory chosen for this collaboration was the Polymer Materials Engineering lab, which is pursuing basic research targeted at applications such as the synthesis of new macromolecular architectures and the formulation of polymers. A second study contract has been formalised under the IDEE programme. This contract is for collaboration with a major industrial group in the transport sector. The study lasted eight months in 2016 for a total of €60,000.

## Future Investment programmes

Two large-scale and innovative healthcare research projects have been launched in collaboration with industry partners (Netris Pharma, Olea Médical, Cynobiose) as part of the Future Investment programmes.

- The TROY (Targeting dependence Receptors in Oncology and hematology) project coordinated by CRCL, whose goal is to target one of the resistance mechanisms present in many cancers by testing two antibodies that disrupt survival signals present at the level of the cell membrane, thus blocking its proliferation. This five-year project is funded in the amount of E9 million, of which E6.2 million for Lyon 1.
- The MARVELOUS (New MR imaging to pReVent cErebraL and myocardial reperFUSion injury) project sponsored by the Carmen laboratory, which aims to develop a new, more rapid and more precise analysis method for MRI images of the heart and brain, which are crucial to optimal emergency treatment of patients. This is also a five-year project, with funding in the amount of E5.5 million, of which E3.7 million for Lyon 1 University.



© Eric Le Roux



UNIVERSITY  
FOR PATENT  
APPLICATIONS



€51.7 M  
IN PARTNERSHIP  
RESEARCH ANNUALLY



**LEADING**  
GLOBAL UNIVERSITY  
IN THE MULTIRANK RANKING  
FOR TECHNOLOGY  
TRANSFER AND  
ECONOMIC  
ENGAGEMENT



# BUILDINGS AND FACILITIES

Lyon 1 continues to renovate its properties, with two major projects at the LyonTech-La Doua site and the Rockefeller Domain. Construction cranes could be seen going up regularly during 2016. At the remaining sites, examination of the construction applications for the CENS-ELI building at Lyon South and Neurocampus at Vinatier will allow work to begin in 2017.

## LyonTech - La Doua campus

The transformation of the LyonTech - La Doua site involves several large-scale projects:

- The "Maison du Projet" was opened in October 2016 during the Science Fair, and allows visitors to explore the history of the La Doua science venue and the plans for the LyonTech-La Doua campus project.
- Other work was completed in 2016: the first phase of renovation of the biology instruction platforms located in the Darwin ABC building, the installation of the bursar in the Géode building, restoration of the Salle Fontannes, and renovation efforts in various teaching locales around campus.
- Restoration of the Chevreul building (€11.8m, ANR Plan Campus financing), begun in late 2015, continues and will be completed in summer 2017.
- Construction of the Axel One building (€5.7m, Grand Lyon - Region financing) began and will be ready to house collaborative chemistry research with companies starting at the end of 2017.
- Construction of the new Chem Bio building (€19.8 M, ANR and government "dotation campus" financing), which will be home to some of the teams housed in the Curien building, was launched in February 2016 for a planned completion in December 2017.
- Development of the greenway (€2.5m, ANR and government "dotation campus" financing) continued with the initial completion of diverse preparatory work during summer 2016, involving the creation of the new urban heating network, work related to the west campus high voltage line, and work on the west gable of the Grignard building. The redevelopment of Evariste Gallois Square will take place in 2017-2018.
- Concerning the Plan Campus operations, designs of the Kastler, Brillouin, Lipmann, Mendel, Oméga and Berthollet buildings were approved in 2016, and applications submitted for the relevant construction permits. The façade prototype was approved.

## Santé-Est campus: Rockefeller-La Buire

Phase 1 redevelopment work was completed and phase 2 (€32m, Region, Santé Est and CPER financing) begun in 2016. Concerning the phase 1 work, the front portion of the building was extensively renovated with the completion of the ground- and first-floor halls and the opening of several student and staff areas: the student centre, cafeteria and medical-social department.

The work was completed with the renovation of the Beer-Lambert chemistry lab.

Phase 2 work began with major demolition and asbestos removal operations on the third floor, which will house the NeuroMyoGène Institute before the end of 2017.

Efforts to waterproof the terrace and attic construction were also begun.

The extension of the animal house is also well underway.

Other work outside the redevelopment project was also completed, such as the renovation of an instructional hall in the Odontology building and the creation of three interactive pedagogy rooms in the Cier building.

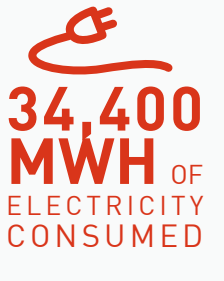
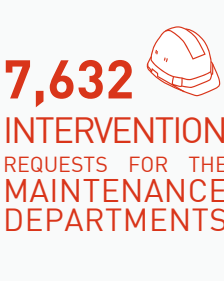
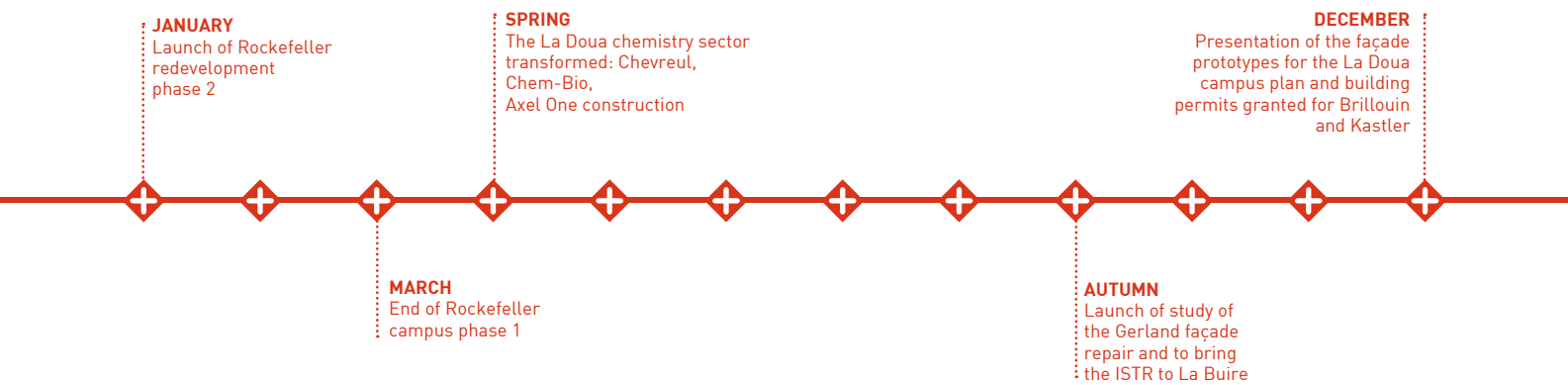
## Projects under study

Many projects in the design study phase will result in key structural work over the coming years. Along with scheduled renovations, safety and accessibility and major maintenance and replacement work, several large-scale projects are under study: Neurocampus project (€20.25m, CPER financing) on the Vinatier site and CENS-ELI (European Centre for Nutrition and Health – European Lymphoma Institute: €15.85m, region, Métropole and LYSARC financing) at the Lyon South site.

Work for both of these projects will begin in 2017, along with the construction/renovation of the buildings that will house the International Centre for Infectiology Research (CIRI, €14.2m, CPER and INSERM financing) on the Gerland site, and combining the activities of the Institute of Rehabilitation Sciences and Techniques (ISTR) at the La Buire site (first phase of €6.1m, CPER financing).



© Badiment CENS ELI





# CAMPUS LIFE

Associations, sports, culture, workshops, events, support for disabilities: a rich student life on the University campuses. In addition to their education, Lyon 1 students benefit from a dynamic student life and numerous services.

## Théâtre Astrée: a cultural centre at Lyon 1!

Theatre, dance, music, acrobatics, digital arts, cinema, discussions and debates, festivals, and more. Culture is everywhere at Lyon 1, and especially at Théâtre Astrée, throughout the season at 19:19 (7:19 PM), and now as well during the midday break. Request the programme!

Topics to explore, artists to discover, an ever greater list of partners, and performances combining arts and sciences. Claire Truche, artistic director of the N<sup>ième</sup> Compagnie and in charge of Théâtre Astrée programming since 2014, believes that art must take on scientific subjects to invent new stories. The 2016 season opened with the creation *La métaphore du canari*, for example. Performances are free of charge for students, and an opportunity for exciting collaborations with Lyon 1 researchers.

These are the stories she shares with the audience, through her own creations and those of the guest companies. On stage, these links between science and art, between academia and society, shape Théâtre Astrée's original programming to make it a unique cultural site in the Lyon greater metropolis.

## Les Arthémiades, festival of the University's talents

In May, the Les Arthémiades festival organised by the Culture Mission is in full swing at Théâtre Astrée. Open to all audiences free of charge, it showcases the artistic expression of the University's students and staff.

Throughout the year, 14 workshops directed by artists prepare high-calibre performances created by true enthusiasts. Theatre, dance, music, literature and video are all on the programme. Sophisticated shows alternate with first creations by young companies, for an exciting experience for all. The Drawing-Painting-Graphic Novel and Photography workshops present their work in the Domus Gallery and on the Astrée displays.

A celebration of artistic interchange and expression, the Les Arthémiades festival expresses the vitality of student and staff creation and their dedication to artistic endeavours, core elements of the Lyon 1 university culture, even within a primarily scientific setting.

## Enhanced services for students with disabilities

Claude Bernard Lyon 1 University welcomes and supports an ever increasing number of students with disabilities. The threshold of 500 students was crossed in the 2015–2016 academic year, a number reached in the first semester of the 2016-2017 academic year.

The Disabilities Mission now has office hours for students at the Santé Lyon Est campus.

These office hours ensure better support for students and better coordination with the site's education departments.

In October 2016, the Disabilities Mission integrated an individual in civil service for an eight-month period.

This mission acts to support specific initiatives conducted by the departments in charge of disability issues within the University. Its aim is to communicate more generally and broadly around the topic of disability, with a "youth to youth" approach.

## Support for staff with disabilities

The University now offers specific training for the managers and co-workers of staff with disabilities. This approach seeks to improve the quality of support and raise awareness of disability issues in the professional setting, both individually and collectively.

Claude Bernard Lyon 1 University organised a first seminar in 2016 dedicated to the topic of disabilities in the work setting. Frédéric Fleury, President of the University, opened the session and more than 40 directors and presidential team members took part.

© Eric LE ROUX / La métaphore du canari / 2016 creation / Nième Compagnie



**6,420**  
SPECTATORS  
**49**  
SHOWINGS

LES ARTHÉMIADES  
FESTIVAL  
**3,580**  
SPECTATORS  
33 SHOWINGS AND  
900 VISITORS FOR  
THE 3 EXHIBITS

**ARTISTIC**  
WORKSHOPS  
216 STUDENTS  
AND STAFF MEMBERS  
ENROLLED  
**12**  
WORKSHOPS

**2,110**  
VISITORS  
TO 5 EXHIBITS AT THE  
DOMUS GALLERY



### Sports as a vector for values of sharing and excellence

In 2016, the sports development policy resulted in exceptional results for the 1933 FFSportU bachelor students in the Lyon 1 Athletic Association (AS Lyon 1), with 153 titles earned at all levels of university competition: 46 at the Academy level, 67 for the Auvergne-Rhône-Alpes region and 40 at national level. On the podiums were 95 national medallists, five European University Championship medallists (two in judo, one in karate and another two in water polo), as well as four silver medals won in the University Championships for rowing and a bronze medal in the world karate championship won by Lyon 1 athletes. With this performance, AS Lyon 1 ended the year in second place in the national athletic association challenge, as in previous years.

In addition, more than 40 events were organised this year by SUAPS and the Lyon 1 Athletic Association, including: climbing Mont Blanc, the Budapest marathon, the Sainté-Lyon foot race, cross-country skiing across the Jura, the Raid O'бивwak run, the Tour du Mont Thabor, volleyball, basketball, badminton, handball, fitness, and table tennis "nights", special tournaments (international basketball tournament in Taiwan, European University Water Polo Tournament in Troyes, Aquath'lyon, etc.), and taekwondo, yoga and contemporary dance classes.

Every year, AS Lyon 1 Solidarity is a project developed around some 20 sports events (nights, tournaments, sports and dance festival).

It provides financial and social support to two associations: Un Maillot pour la Vie and Handicap Evasion.

A third organisation was added in 2016, La Flamme de la Vie, which now receives support from the 2,343 members of the athletic association.

Lastly, the creation of a UDL athletic association (AS UDL) was initiated in 2015/2016 and will soon help unite the various institutions around shared athletic projects, and send more athletes to high-level competitions.

### Student Initiative Solidarity and Development Fund: a booster for student life

In 2016 the Student Initiative Solidarity and Development Fund (FSDIE) amounted to more than E420,000, providing support for 116 student projects in 2016, a 2.3% increase over 2015. These projects are diverse and varied, ranging from the "Sors de ta Piaule" ("get out of your room") project to combat student isolation, to Teddy Bear Hospital events and the "Un Doua de Jazz" festival. In addition to these many projects, 20% of the total was aimed at supporting and assisting students in difficulty.

### Student centre, student open house and athletic festival: dynamic campuses!

As part of the renovation of the Lyon-Est Santé campus, a student centre opened in 2016, housing all the site's associations as well as a restaurant area and university services dedicated to student life. The University supports student life as a vector for student satisfaction and engagement.

In addition, the Student Open House (*Journée des Etudiants*) and athletic festival were successfully reinstated at the start of the 2016-2017 academic year. This major event gives newly arriving students the chance to learn about the University's various departments and associations, and to enjoy sports events and original activities.



© Eric Le Roux

**29 MARCH**  
Impromptu hip hop  
sounds, outdoors  
on the LyonTech-  
La Doua campus

**26 MAY**  
The biggest cyanotype  
(monochrome  
photographic process  
negative) in the world,  
created at IUT Lyon 1

**FROM 26 SEPTEMBER  
TO 05 OCTOBER**  
Theatre and science  
with *La Métaphore du  
Canari*, an original  
Nième Compagnie  
creation to open  
the season

**FROM 06 DECEMBER  
TO 13 JANUARY**  
"Jeunes photographes aux  
temps présents" exhibit,  
Enssib / Galerie Domus

  
**11,853**  
STUDENTS  
GRADED  
IN SPORTS  
AS PART OF THEIR COURSE

  
**515**  
STUDENTS  
WITH DISABILITIES  
BENEFIT FROM  
EXAM OR STUDY  
ACCOMMODATIONS

  
**210**  
TOP ATHLETES  
RECEIVED COURSE  
ACCOMMODATIONS

**240**  
STUDENTS  
WITH PHYSICAL  
IMPAIRMENTS  
RECEIVED  
SPORTS ACCOMMODATIONS



# LIBRARY RESOURCES

Furnish open living and study spaces that meet everyone's needs (reading rooms and group work rooms, individual spaces, computer equipment, etc.), provide appropriate library resources and services, organise cultural events... these are the primary missions of the Claude Bernard Lyon 1 University libraries.

## Libraries open seven days a week

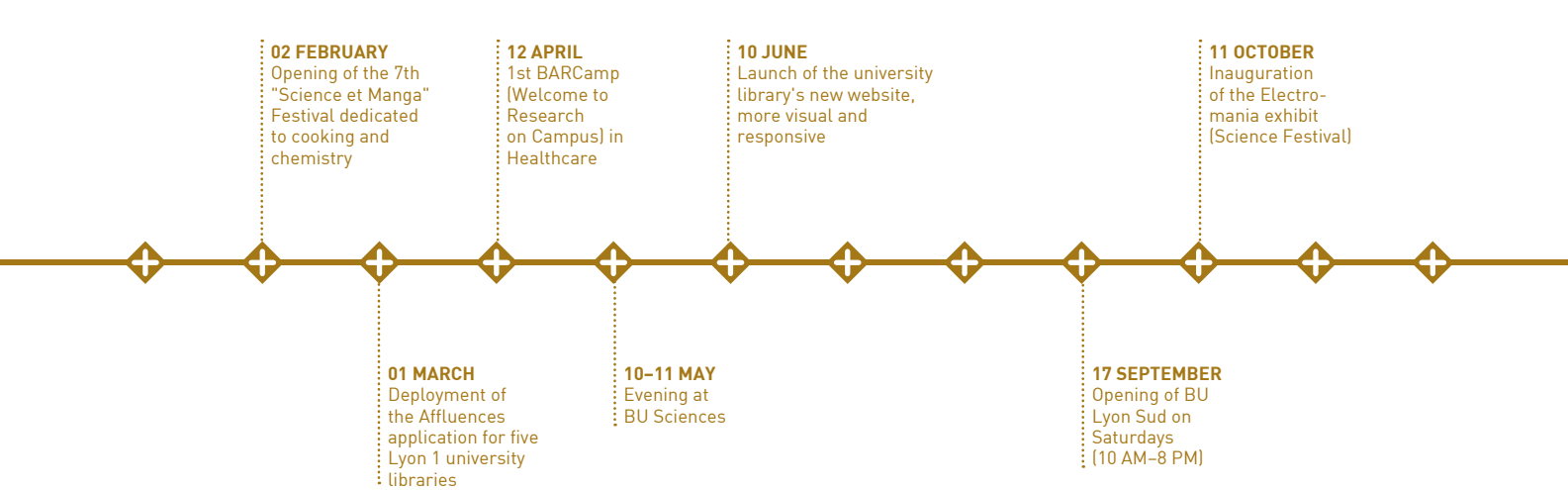
Already generally open evenings until 10 PM, the two largest libraries in the network, BU Santé Rockefeller and BU Sciences Doua, today offer some of the most extensive public opening hours in France at 91 hours a week. Supported by the University's proactive policy and funding from the French National Education, Higher Education and Research Ministry under the "Libraries more open" plan, these two libraries added Sunday hours from 10 AM to 8 PM at the start of the 2016–2017 academic year. This new wave of expanded hours, meeting strong demand from students, also impacted the Santé Lyon Sud library, open starting at 8 AM on weekdays and all day on Saturday since September 2016. The expanded hours were an immediate success, with these libraries registering a greater than 70% occupation rate on Sundays at the end of 2016. A system was also put in place to inform students of workspace availability in real time.

## A Learning Lab at the Sciences library

Since 04 April 2016, BU Sciences Doua has provided master and PhD students, instructors, tutors, teachers and University departments with an original and experimental education and group work space known as the Learning Lab, designed with the support of the ICAP department. With its fully adjustable furnishings, shared working tools and innovative facilities, this space is endlessly reconfigurable for up to 19 people for innovative work approaches (brainstorming, design thinking, flipped classroom, buzz groups, etc.) to facilitate interactivity, creativity and engagement in group work. It is also used by faculty members and staff at Lyon 1 for collaborative work sessions. In its first six months of operation, more than 500 users have already taken advantage of the Learning Lab. The library is thus diversifying its offer of locales suitable for all types of academic work, and supporting its users in their innovative practices.

## University libraries with an ear to their customers

In spring 2016, the Lyon 1 university libraries conducted an extensive satisfaction survey to better understand the university community's needs in terms of documentary resources and services. More than 5,000 people (students, instructors, staff) responded to this survey evaluating the nine libraries in the network. The overall satisfaction score is considerably higher than in 2012 (year of the previous survey): 7.13 / 9 (compared with 6.76 in 2012), which is very positive and indicates the genuine qualitative progress made in the various services offered. Particular praise went to the convenience of workspaces (in particular at BU Sciences, BU Santé Rockefeller and BU Education Lyon Croix-Rousse), staff availability, opening hours, the relevance of available resources, and the variety of cultural programming offered by the libraries. Many comments were also submitted, which help to better understand demand and continue to improve the services offered (for researchers, for example).





# SCIENTIFIC CULTURE

Dissemination of scientific, technical and industrial culture allows Claude Bernard Lyon 1 University to resonate well beyond its region. The institution actively contributes to the science-society interface with a rich and varied offer for its staff and students, as well as the general public and school pupils.

## Lyon 1 Open University: 25% more participation in 2016

With 900 subscribing auditors in September 2016, the Open University registered 25% growth of its subscribers compared with September 2015 (727 auditors), thanks to communication initiatives and word-of-mouth recommendation.

In 2015-2016 (the Open University operates on the academic calendar) there were 234 lectures, five themed tours and, in partnership with the city of Villeurbanne, seven scientific evenings which attracted an average of 210 auditors. These lectures were given by Lyon 1 faculty members at 22 sites in the Lyon region: Higher education institutions (Lyon1 University, UNIVA, Délégation CNRS Rhône-Auvergne, ENSSIB, ENS, CNSMD), secondary schools (Ampère and Charles de Foucault), Maison des Mathématiques et de l'Informatique, cultural venues of the City of Lyon (MBA, Musée Gallo-Romain, BM, Médiathèque de Bachut), Musée Africain, Planétarium de Vaulx-en Velin, Maison du Livre de l'Image et du Son de Villeurbanne.

In 2016, a new partnership was formed with the Lyon Contemporary Art Museum and intergenerational workshops were created, open to children age 8 and up with their families.

## Platonium: when science does art

During the Fête des Lumières 2016, held in Lyon from 08 to 10 December, an installation imagined by artists Akari Lisa and Eric Michel together with researchers from Claude Bernard Lyon 1 University was presented in the courtyard of the Hôtel de Ville.

Inspired by the allegory of Plato's cave, Platonium placed spectators in the centre of an immersive space designed in resonance with cutting-edge research in physics, astrophysics and environmental chemistry.

Some of the researchers who participated in the development of the scientific content were able to present it to 80 people (Lyon 1 University staff and students belonging to the Sciences pour Tous site), during a private tour organised for the launch of the Fête des Lumières on 08 December. Produced by CNRS in partnership with Lyon 1 and the University of Lyon, the installation won the Trophée Recyclum award presented as part of the Fête des Lumières to the greenest installations.

## CERESE: showcasing France's leading academic naturalist collections

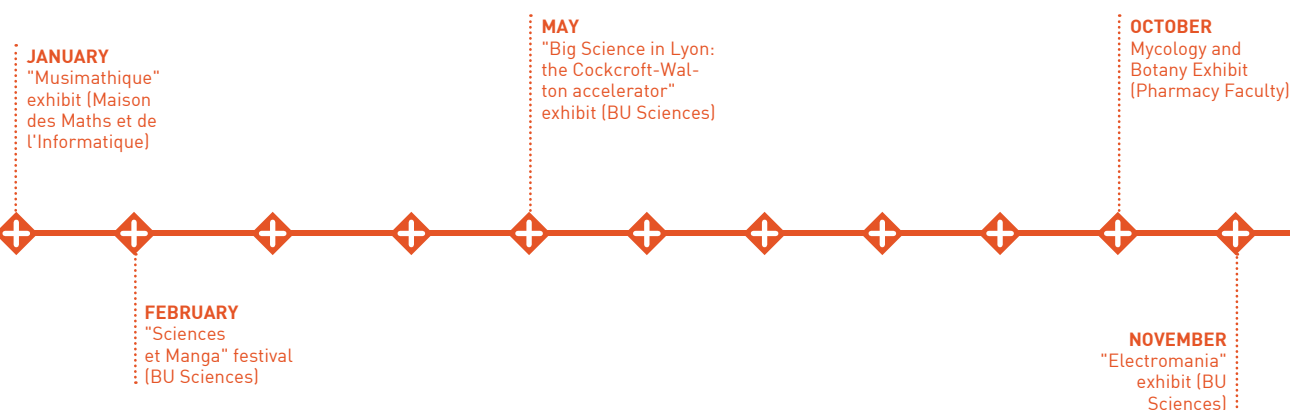
Created on 01 January 2016, the Evolutionary Sciences Resource Centre (CeReSe) now houses the Claude Bernard Lyon 1 University's botanical, geological and zoological collections, the largest academic natural sciences collection in France with 14.6 millions current and fossil specimens preserved within the institution. This impressive data collection for research supported four international scientific publications in 2016.

Items from the collection toured France in six temporary exhibits.

Preparatory work has also been completed to integrate CereSe into the e-ReColNat network in 2017, a national platform that aims to bring together all French natural science collections for biodiversity preservation and research. Lastly, items from the botanical and palaeontological collections have been digitised in 3D for use in instructional materials (Geosciences) and with the general public.



© Eric Le Roux



ALMOST  
100 GUIDED  
TOURS OF THE  
UNIVERSITY  
COLLECTIONS

11,541  
VISITORS TO  
THE UNIVERSITY  
LIBRARY'S  
CULTURAL  
PROGRAMMES

SCIENCES  
pour tous  
+ 16 %  
VISITOR  
NUMBERS

fête de  
la Science<sup>tr</sup>  
5,400  
SCHOOL PUPILS  
WELCOMED



# 2017 OUTLOOK

There are many events and key moments to look forward to in 2017, whose orientations will depend on the future government's higher education and research policy, as well as on the IdEx's results, which will define both the pace and nature of the University's development. Construction work will continue on the Lyon Tech La Doua campus, where 12 teaching and research buildings are under renovation. On the Lyon Est campus, the second phase of more than 30m of construction work funded by the AURA (Auvergne-Rhône Alpes) region and CPER (state-regional project contract) is underway, including the paramedical centre that is reshaping the La Buire complex. Work will begin at the Gerland site with the renovation of the façade, and the university library will be expanded to the Lyon Sud faculty of medicine site. As part of the current renovation projects on the campuses, we have decided to develop more than 2500 m<sup>2</sup> of additional infrastructures to create new working and living spaces for students.

Our international initiatives will be more ambitious, as we aim to foster mobility, give students better grounding in foreign languages, internationalize education courses, and pursue the international reach and scope of our research by welcoming more researchers, teaching staff and students. The vectors of this policy will include a "successful mobility" support system in the 2nd semester, the call for summer school projects, publication of international calls for projects, new subsidies for TOEFL registration fees, etc.

In the area of education, 2017 will witness the important revamping of selection for master programmes, implementation of the graduate medical degree (MD) reform, and the continued transition to master degrees for paramedical specialities. The University's governing boards will need to define a policy balancing our capacity, with education and professional development opportunities for our students. We will continue to expand the use of digital tools as a different approach to learning, in particular for languages, with our participation in the Digital Campus Region (*Région Campus Numérique*) project. Our university is known for the quality and size of its continuing education and lifelong learning offer, which we want to develop even further.

In research, we will more closely support the research units in their strategies and projects, from basic research to innovation and technology transfer. Priority targets will be the European ERC H2020 projects and integration into European networks. Initiatives will also be rolled out to improve the reception and support provided to young faculty members. We hope to support new projects using interdisciplinary approaches, in particular related to social issues such as health, energy and the environment, integrating social and human sciences (SHS) where necessary and possibly also connections to units from other institutions. We will continue to support our dynamic healthcare sector via our two successful university hospitals. In terms of personnel, we will strengthen our employment model by both reinforcing existing initiatives and introducing new measures. The university will be the first or one of the first universities to introduce telecommuting in beta mode at the start of 2017. We are also committed to expanded dialogue with employee representatives. New initiatives supporting quality of life at work will be introduced. For students, a healthcare centre will open at the end of 2017 to give them access to care and medical prescriptions. Over the longer term, the centre will expand to include the medical specialities that cover students' main healthcare needs.

The university is particularly vigilant when it comes to safety and security for all, working with institutional partners with which it has developed close and systematic relationships. After having updated internal communication and explanations, completed safety and compliance work, and

received training in managing serious events and crises, the governance team and service departments prepared initiatives for deployment in 2017: La Doua site safety audit, recruitment of a safety officer, organisation of conferences to raise awareness of risk and recommended conduct in case of a serious event, installation of a text alert system for students and staff, development of a business continuity plan, a first aid training day, etc.

All these changes, whether internal or related to the creation of a new, single university, will be shared with the institution's staff and designed for the benefit of the university community.

## ORGANISATIONAL CHART OF CLAUDE BERNARD LYON 1 UNIVERSITY





CLAUDE BERNARD LYON 1 UNIVERSITY GOVERNANCE TEAM





# CLAUDE BERNARD LYON 1 UNIVERSITY

LyonTech - La Doua campus  
43, boulevard du 11 novembre 1918  
69622 Villeurbanne cedex, France  
+33 (0)4 72 44 80 00

[www.univ-lyon1.fr](http://www.univ-lyon1.fr)



 [www.facebook.com/UnivLyon1](https://www.facebook.com/UnivLyon1)

 [www.youtube.com/UnivLyon1](https://www.youtube.com/UnivLyon1)

 <https://twitter.com/UnivLyon1>



Université Claude Bernard Lyon 1

