University of Reims
Champagne-Ardenne
Located at the heart of France, at the crossroad of Rhineland, Northern Europe and Italy, URCA has a strategic position for European and international exchanges.

Reims is a student friendly city with a rich cultural and historical background.
The university is a driving force in the region

- **29,100 students**
  - Chalons en Champagne: 650
  - Charleville-Mézières: 940
  - Chaumont: 110
  - Reims: 23,900
  - Troyes: 3,500

- **5th biggest employer in the former Champagne-Ardenne region**
  [Source: INSEE]

- **6,537 jobs sustained in the region**

- More than €255 M of economic impact (wealth created) for the region

**5 Towns in Champagne Ardenne**
- Charleville-Mézières: 3.5%
- Reims: 80.7%
- Troyes: 13%
- Chaumont: 0.4%
- Chalons en Champagne: 2.4%

**4 Doctoral Schools**

**5 IUTs (university institutes of technology)**

- 2 engineering schools
- 1 champagne vine and wine Institute

**31 research units**
- 4 CNRS
- 1 INSERM
- 2 INRAE (1 UMR, 1 USC)
- 1 INERIS
- 1 ANSES
- 1 CEA

**8 faculties**

- 1 INSPE (higher national institute of teaching and education)

**2,500 staff**
- 1,460 Teachers and teacher-researchers
- 1,040 Library, research engineers, administrative, technical, Social and Health staff

**1,460 staff**

**3.5%**

**80.7%**

**2.4%**

**13%**

**0.4%**

**29,100 students**

**8,070 students**

**2,500 staff**

**25,000 students**

**5th biggest employer in the former Champagne-Ardenne region**

[Source: INSEE]

**More than €255 M of economic impact (wealth created) for the region**

**5 Towns in Champagne Ardenne**
- Charleville-Mézières: 3.5%
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A constantly evolving training offer

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>2018-2022</th>
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<tbody>
<tr>
<td>Bachelor degrees</td>
<td>24</td>
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<tr>
<td>Vocational Bachelor degrees</td>
<td>48</td>
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<tr>
<td>Technology Bachelor degrees</td>
<td>16</td>
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<tr>
<td>Master’s degrees</td>
<td>54</td>
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<tr>
<td>Engineers degrees</td>
<td>7</td>
</tr>
<tr>
<td>Health degrees</td>
<td>8</td>
</tr>
</tbody>
</table>

Click [here](#) to access training offer by degree

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**RANKING**

Medical Technology Field at URCA – 301-400th (Shanghai Ranking of Academic Subjects)

Master in statistics for evaluation and forecasting – 3rd in big data / 1st University (Eduniversal 2021)

Master in Wine and champagne – 4th in wine and gastronomy management (Eduniversal 2021)
Study at URCA

FACULTIES (UFR)

Faculty of Literature and Human Sciences (Link [here](#))
Faculty of Economic, Social and Management Sciences (Link [here](#))
Faculty of Law and Politics (Link [here](#))
Faculty of Exact and Natural Sciences (Link [here](#))
Faculty of Science and Techniques of Physical and Sport Activities (Link [here](#))
Faculty of Medicine (Link [here](#))
Faculty of Pharmacy (Link [here](#))
Faculty of Odontology (Link [here](#))
Campus of the Counts of Champagne (Link [here](#))
Study at URCA

**INSTITUTES**
- **IUT RCC** - University Institute of Technology in Reims-Châlons-Charleville (Link [here](#))
- **IUT Troyes** - University Institute of Technology in Troyes (Link [here](#))
- **IVV** - Georges CHAPPAZ Institute of Champagne vine and wine (Link [here](#))
- **Inspé** - National Institute of Higher Education and Teaching (Link [here](#))

**SCHOOLS**
- **ESIReims** - Packaging and Conditioning Engineering School (Link [here](#))
- **Doctoral Schools**  (Link [here](#))
- **Eisine** - School of Engineering in Industrial and Numeric Sciences (Link [here](#))
GEORGE CHAPPAZ INSTITUTE OF CHAMPAGNE VINE AND WINE (IGC)

The IGC showcases research and higher education in Champagne vine and wine through interdisciplinary collaboration, as its expertise relies on the exact sciences and technology, as well as social sciences and humanities.

IGC is also part of a strong network which involves higher education institutions of the region, research clusters, local and regional authorities and businesses of the Champagne region and champagne industry, to carry innovative techniques and production process of wine and champagne.
Study at URCA

OENOLOGY NATIONAL DIPLOMA

- URCA is one of the two universities in France that deliver this national diploma
- Bachelor level required in biological, chemical, biochemical or agronomic sciences
- Two years of training including two internships, at Georges CHAPPAZ Institute of Champagne vine and wine with classes mutualized with the Master in Wine and Champagne
- Click here to get more information
Courses available in English

MULTIMEDIA AND INFORMATION TECHNOLOGIES – Troyes Institut of Technology
- Topics : Integration, Content Manager Section
- Click here to get more information

CORPORATE AND ADMINISTRATION MANAGEMENT – Troyes Institute of Technology
- Topics : Administration, Management, Commerce
- Click here to get more information

BUSINESS AND MARKETING – Troyes Institute of Technology
- Topics : Marketing, Sales & Commercial communication
- Click here to get more information

MECHANICAL & MANUFACTURING ENGINEERING – Troyes Institute of Technology
(Spring Semester)
- Topics : Product design, product manufacturing and operations management
- Click here to get more information

→ Kindly note that we are still in process of building our training offer in English, do not hesitate to contact us if you would like to know more about our English taught courses.
Courses available in English

ELECTRICAL ENGINEERING & INDUSTRIAL IT – Troyes Institute of Technology
- Topics: Electricity, Automation, Computer Science
- Click here to get more information

BIOLOGY AGROSCIENCES MASTER DEGREE – Science Faculty in Reims
- Topics: Agro-ressources and biorefinery
- The fall semester of the first year will be shared with the Erasmus Mundus Bioceb taught at URCA
- Master level (equivalent level: fourth year)
- Click here to get more information

ENGINEERING SCHOOL IN PACKAGING – ESIReims
- Topics: packaging design, material resistance, computer-aided design and prototyping, etc
- Up to 3 semesters available from bachelor level to 1st year of Master equivalent
- Click here to get more information

ENGINEERING SCHOOL IN ENERGY ENGINEERING – ESIReims
- Topics: material resistance, thermodynamics, convective heat transfert ans energy system
- Bachelor level
- Click here to get more information

→ Kindly note that we are still in process of building our training offer in English. Do not hesitate to contact us if you would like to know more about our English taught courses.
Learning French at URCA

INTERNATIONAL CENTER FOR FRENCH LANGUAGE (CIEF)

• Possible **taylor-made programmes**: French & Sciences
• **Free classes** for Exchange Students
• **6 different levels**, each composed of 16 to 20 hours of weekly courses, with at least 1 hour of autonomous work in the Languages Resources Centre (CRL), guided by a teacher-tutor
• Mentoring for students (**click here**)
• **DU Passerelle – Students in exile** (**click here**)
An international university

2,900
International students
(122 nationalities)

74
funded projects in
the last 5 years

481
cooperation
agreements with

185
partner
establishments in

59
countries
worldwide

Member of the EUA – European University Association

Member of the International Associated Laboratory
(LIA) of the CNRS “Absorption Spectroscopy of
Molecules of Atmospheric or Planetological Interest” -
SAMIA

Joint master’s degree in bioeconomy “Erasmus Mundus
BIOCEB” with 4 European universities
An international university

COMMITTED TO PROVIDE THE BEST EXPERIENCE TO OUR INTERNATIONAL STUDENTS

Events
- Welcome Days
- International Students’ Day
- Cineclubs

Programmes
- Language Tandem
- Buddy programme & Buddy Family
- Tutoring
URCA will join a transnational alliance of European Universities called INVEST. This alliance gathers five others European universities including Leeuwarden in the Netherlands, Joensuu in Finland, Nitra in Slovakia, Tessaly in Greece and Plovdiv in Bulgaria.

This alliance focus on sustainable and regional development.
A player in major social issues

- Disability
- Professional codes of ethics
- Secularism and countering racism and anti-Semitism
- Equality and diversity
- Sustainable development and social responsibility
- Student healthcare
- Secularism and countering racism and anti-Semitism
Contributing to SDGs

Over the period from 2016 to 2021, URCA’s publications related to 15 of the 16 Sustainable Development Goals. The first SDG that stands out for URCA is Good Health & Well being.
Research at URCA

A strategic training, research and innovation project based around four scientific application clusters focused on a regional, national and European priority: Bioeconomy

850 researchers and teacher-researchers

31 Approved laboratories
4 CNRS, 1 INSERM, 2 INRAE (1UMR,1USC), 1 INERIS, 1 ANSES, 1 CEA

13 technological platforms and technical facilities

4 Research federations
FR CNRS Condorcet: Agricultural sciences, environment and sustainable development (URCA / UPJV / ULG / CNRS supervision)
FR CNRS MNGE Grand Est Materials and Nanosciences (Unistra supervision)
FR GE@2M – Grand Est Federation in Mechanics and Materials (University of Lorraine supervision)
SFR Cap Santé (URCA supervision)

8 Academic and industrial chairs
Including 1 INSERM and 1 ANR chair

4 Doctoral Schools
Including 1 joint with AgroParisTech (AEBB)
500 PhD students
EXEBIO, an International Institute for Bioeconomy within URCA

In July 2022, URCA has been awarded a National investment programs for Higher Education of 22 millions euros over 10 years, by an international jury.

This project, called EXEBIO, will create an International Institute for Bioeconomy within the University, in line with our scientific and academic policy and priorities.
Training/Research/Innovation structuring projects

01 IAS (Institute of Artificial Intelligence for Health)

02 DeMETeRE (PIA 4 DemoES)

03 MesoNet (EquipEx+)

Junior pr chairs
Atmospheric and carbon cycle sciences
Bio-sourced, eco-designed, multifunctional materials

04 CMQ for BIOECO Academy excellence (PIA 3)

05 Obs4clim (EquipEx+)
LabCom LYNNA
Chair

06 EXEBIO (PIA 4 ExcellencES)
submission of application February 2022
ZARG (Argonne Workshop Zone)

07 Terraforma (EquipEx+)

08 Human Sciences Establishment
5 technological platforms to link teaching, research, innovation, and knowledge transfer (21 M€)

Healthcare
- PICT
- Animal house
- CRB TOXO and CHAR
- URCA Cy

AEBB
- CERFE
- Mobicyte
- PLANET

Maison de la simulation
- Image Centre Virtual reality room
- ROMEO
- P3M: Multi-scale molecular modelling

Industry of the future
- CELLFLEX 4.0
- PLATINIUM 3D

Materials / Nano
- Nano’mat
- Elaboration/ Characterisation

HEALTHCARE
AEBB
Agriscience, environment, biotechnology and bioeconomy

DES
Digital and engineering sciences cluster

HSS
Humanities and social sciences cluster
AEBB Cluster expertise at URCA

8 main research areas

✔ Sustainable crop production: biocontrol & biostimulation
✔ Environment
  ✔ Soil & Water management
  ✔ GHG emissions measurements & their impacts on climate
✔ Production of biomolecules & biopolymers: green chemistry and white biotechnologies
✔ Biobased materials for industries: construction, textile, bioplastics for cars, planes, health and cosmetics
✔ Energetic valorization of biomass: methanization
✔ Societal impacts of bioeconomy: acceptability, new trades, economical systems, reindustrialization
AEBB Cluster Strike Force

15 LABORATORIES
4 CNRS, 1 INERIS, 2 INRAE

1 DOCTORAL SCHOOL
Agriculture, food, biology, environment, health - ABIES (Paris-Saclay University, Agreenium, Paris-Est University & URCA)

7 TECHNICAL PLATFORMS
CERFE, Mobicyte, PLANET ROMEO, P3M, PICT IBISA, Nanomat’

2 KEY STRUCTURING INTERDISCIPLINARY PROJECTS
AEROLAB – Monitoring GHG emissions
ZARG – Territorial ecology

1 CNRS RESEARCH FEDERATION
FR CNRS Condorcet on Agrosciences, Environment & Sustainable Development (URCA / UPJV / ULg /CNRS)
680 researchers, 30 laboratoires
3 European Regions : Grand Est, Hauts-de-France, Wallonia

6 ACADEMIC & INDUSTRIAL CHAIRS
AFERE
Agroressources
FERmentation Enzymes
UMR FARE

MALDIVE
Vine wood disease
USC RIBP

AQUASURV
Development of tools for the biomonitoring of aquatic environments
UMR SEBIO

ATMOSFERE
Greenhouse gases
UMR GSMA

MATUR
Architected materials
ITHEMM

MAGICS
Molecular medelling
UMR MEDYC
A favourable context for the development of the bioeconomy

AGRICULTURE AND VITICULTURE-BASED ECONOMY IN THE GRAND EAST REGION

A REGIONAL PRIORITY

Become European leaders in bioeconomy by supporting the development of production and use of regional resources (agricultural and forestry biomass, household bio-waste, etc.)

BIOECONOMY FOR CHANGE (B4C) CLUSTER

- 450 Partners
- 2 billions € investment
- 350 funded projects
A favourable context for the development of bioeconomy

EUROPEAN CENTRE FOR BIOTECHNOLOGY AND BIOECONOMY (CEBB)

- URCA
- AgroParisTech
- CentraleSupélec
- Neoma BS

POMACLE-BAZANCIOURT BIOREFINERY

- Gathers biorefinery industries and innovation platform « Biorefinery Research and Innovation »
- Main centre for French agri-industrial research
Focus on **bioeconomy**

**BIOECO ACADEMY**

- Careers and qualifications campus (CMQ) bring together secondary and higher education institutions for initial or continuing training in sector of excellence corresponding to a national or regional economic challenge and supported by local authorities and companies.
- Facilitate the integration of young people into employment and enable companies to hire "well-trained" employees.
- BioEco Academy CMQ gather 80 higher education courses related to bioeconomy in the region federated in a unique French campus in Reims.
- Promotes modular and mixed courses, centered on professional and continuous training (last year of secondary education until 3rd year of Higher Ed).
Focus on bioeconomy

MASTERS

BIOLOGY AND AGROSCIENCES
- Plant Biomass Production and Bioprotection
- Biotechnologies, Plant Chemistry and Biorefinery

SCIENCES OF VINE AND WINE
- Viticulture and Environment
- Wine and Champagne

RISKS AND ENVIRONMENT
- Biodiversity, Health, Environment
- Environmental management, Waste, Energies

CHEMISTRY AND LIFESCIENCE
- « Molecular chemistry » course relevant to strategic sectors of application in URCA/bioeconomy, environment and health cosmetics

APPLIED ECONOMY
- Ecological transition and public policies. This master program offers students skills in the main societal impacts of bioeconomy worldwide.

CMI BIOREFINERY
- Since 2016, a « Master-Engineer » curriculum on “Biorefinery and Bioeconomy” has been developed to complement the existing program (5-year integrated cursus starting from L1 to M2)
Focus on bioeconomy

ERASMUS MUNDUS JOINT MASTER DEGREE BIOCEB

• « Biological and Chemical Engineering for a sustainable Bioeconomy »
• A vision based on a sustainable use of biological resources
• Fully taught in English
• Study (and life) experience in at least 2 European countries, resulting (after acquiring 120 ECTS) in 3 MSc degrees from prestigious universities
• Started in September 2020
• 1st joint semester at URCA
• http://www.bioceb.eu/
Focus on bioeconomy

ERASMUS MUNDUS JOINT MASTER DEGREE BIOCEB

S1 (URCA) 30 ECTS
Disciplinary strengthening in chemistry or biology and in process engineering 3
Physiology and genetic of plant development 6
Agricultural and viticultural soils 3
Plant-soil interactions 3
Plant components and biorefining 6
Molecular biology of microorganisms 3
Green Chemistry, biosourced, building-blocks 3
Green Line project – 1st stage 3

Get the syllabus of these classes [here](#)

**Induction week**
S1 – Agro-sciences and biorefinery (URCA)
S2 – Option 1 (TalTech)
Bioproducts & sustainable chemistry
S2 – Option 2 (AgroParisTech)
Agro-resources & value-chain assessment

**Intersectorial joint summer school (TalTech)**
S3 – Option 1 (AgroParisTech)
Biomass engineering
S3 – Option 2 (ULiège)
Bioprocesses
S3 – Option 3 (Aalto)
Materials & biopolymers

**S4 – MSc Thesis via internship at international scale**
(EU or non-EU)

**Joint graduation & dissemination event at URCA during induction week**
Inter-cohorts (and alumni) meeting

**Tracks**

**Track 1**
- AgroParisTech
- ULiège
- Aalto

**Track 2**
- AgroParisTech
- ULiège
- Aalto

**Track 3**
- AgroParisTech
- ULiège
- Aalto

**Track 4**
- AgroParisTech
- ULiège
- Aalto

**Track 5**
- AgroParisTech
- ULiège
- Aalto

Track 1: Bioproducts, green chemistry, biomass engineering
Track 2: Bioproducts, green chemistry, bioprocesses
Track 3: Bioproducts, green chemistry, materials, polymers
Track 4: Agro-resources, value-chain assessment, bioprocesses
Track 5: Agro-resources, value-chain assessment, materials, polymers
Our entrepreneur students
2020/2021 year group

1
Student entrepreneurship cluster

1
incubator

131
project leaders

164
national statuses of entrepreneur students obtained

99
dossiers tracked in the pre-incubation programme

22
projects in incubation (in January 2021)

13
students enrolled in the D2E (Entrepreneur Student qualification)

10
projects awarded a prize including 1 National PEPITE prize

20
“Young Entrepreneurship” Grand Est aids

5
creations of companies over the year
A network-based approach

COMPETITIVENESS CLUSTERS

LOCAL AUTHORITIES AND REPRESENTATION

EXISTING PROGRAMS

MEDIA & LOCAL PRESS

INDUSTRIAL PARTNERS

PUBLIC RESEARCH BODIES

ACADEMICS

CAMPUS DES MÉTIERS ET DES QUALIFICATIONS
THANK YOU FOR YOUR INTEREST IN THE UNIVERSITY OF REIMS CHAMPAGNE-ARDENNE!

Do not hesitate to contact our Department of international affairs at dredi@univ-reims.fr