



EXEBIO

Institut
International en
Bioéconomie et
Environnement

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Financé
par



THE UNIVERSITY OF REIMS CHAMPAGNE ARDENNE

The University of Reims Champagne-Ardenne (URCA) is a nationally and an internationally recognized multidisciplinary training and research university whose groundbreaking work in the fields of bioeconomy and ecological transition makes it, an important international player in this domain.

Facing the environmental and social challenges of the 21st century, URCA is committed to contribute to the local and regional strategies on bioeconomy and more largely, on the European Green Deal and on the 17 UN Sustainable Development Goals. As such, URCA has chosen to develop excellence in the research-education-innovation-international *continuum* on bioeconomy, environment, ecological transition and sustainability.



2 500
staff

1 460 Teachers and
teacher-researchers

1 040 Library, research engineers,
administrative, technical, Social and
Health staff



140
diplomas



5TH

biggest employer in the former
Champagne-Ardenne region
(source INSEE)



27 500
students



32
accredited
research units



19 590
jobs sustained
including **10 373**
in France



4
scientific application
departments



+ THAN € 818 M
of economic impact (wealth
created) for the region

THE EXEBIO PROJECT

The EXEBIO project "Excellence in Sustainable Bioeconomy" has been selected as part of the ExcellencES call for tenders "Excellences sous toutes ses formes" launched by the French Research and Education ministry in 2022. This achievement recognizes the excellence of URCA's research, training, innovation and international activities in its signature fields: bioeconomy and environment.

EXEBIO Institute's missions at a glance:

- Boost interdisciplinarity in research and education
- Contribute to the internationalization of the university
- Steer the network of institutional and international partners around the 3 key pillars
- Propose and coordinate events and actions
- Contribute to the search for funding



10
years



20
recruitments



€ 21,7 M
in grants



€ 46,6 M
global budget



€ 24,9 M
of investment by partners



300
teachers and researchers



12
partners

The EXEBIO project, with a total budget of 46.6 million euros, led to the creation of the *Institut International en Bioéconomie et Environnement* in January 2024

FIELDS OF EXCELLENCE

GREEN CHEMISTRY AND BIOTECHNOLOGY

MAIN RESEARCH AREAS

Production of molecules, Bioproduction, Process engineering, Analytical chemistry, Chemoinformatics, Molecular modelling

APPLICATION AREA

Fine chemistry, Cosmetics, Health, Polymers, Agriculture, Biofuels, Biocontrol, Pollution control



ENVIRONMENTAL QUALITY

MAIN RESEARCH AREAS

Soil and Water characteristics and quality, GHG monitoring and modeling, Microbial ecology, LCA

APPLICATION AREA

Pollution monitoring and control, Agriculture, Health, Geography, History



SUSTAINABLE CROP PRODUCTION

MAIN RESEARCH AREAS

Plant immunity, Biocontrol, Artificial Intelligence for agriculture, Soil management, C and N cycles

APPLICATION AREA

Agriculture, Viticulture, Horticulture



BIOBASED MATERIALS

MAIN RESEARCH AREAS

Production of composites and polymers, Characterisation of materials, Nanomaterials, Processes

APPLICATION AREA

Construction, Packaging, Health, Transport, Textiles, Electrical engineering, Viticulture



SOCIETY TRANSFORMATION

MAIN RESEARCH AREAS

Stakeholders analysis, Innovation systems, Vocational streams, Business models, Ecological accounting, Social and Solidarity Economy, Consumers behaviors, Circular bioeconomy trajectories

APPLICATION AREA

Ecological transition, Urban planning, Economics, Management, Public policies, Marketing, Sociology, Geography



HEALTH

MAIN RESEARCH AREAS

Therapeutic chemistry (biobased molecules), Environmental health vs. Human health, Sports performance and pollution, Parasitology and climate change, Molecular modelling, Biobased materials

APPLICATION AREA

Cancer, Biomaterials, Inflammations, Ageing, Parasitology, Sports, Pollution





KEY PILLARS

The EXEBIO Institute's missions are focused around three key pillars:

RESEARCH

Unfold an ambitious policy for research excellence: implementing a proactive international recruitment strategy for high-level scientists, supporting the development of excellent research and interdisciplinarity, and strengthening the internationalization of research.

TRAINING

Transforming graduate programs with a European Graduate School focused on high-level programs anchored in research and connected to the socio-economic world; development of masters and doctoral programs in partnership with all stakeholders of the institute. These programs will be inherently international and flexible.

INNOVATION

Developing innovation and partnerships with the industrial world, to create a genuine innovation policy around the bioeconomy and the environment and strengthen the international research-education-innovation continuum. This aim will be achieved through the deployment of joint public-private laboratory projects, and the professionalization of training courses, particularly around entrepreneurship.



EXEBIO community counts more than 300 experts covering a broad scientific spectrum in the field of bioeconomy and ecological transition

EXEBIO INSTITUTE'S CONSORTIUM

The EXEBIO institute is coordinated by the University of Reims Champagne-Ardenne in collaboration with 11 partners:

Local & Regional Public Communities



Public Research bodies



Industrial clusters



Media



Industrials



Academics



With the support of:

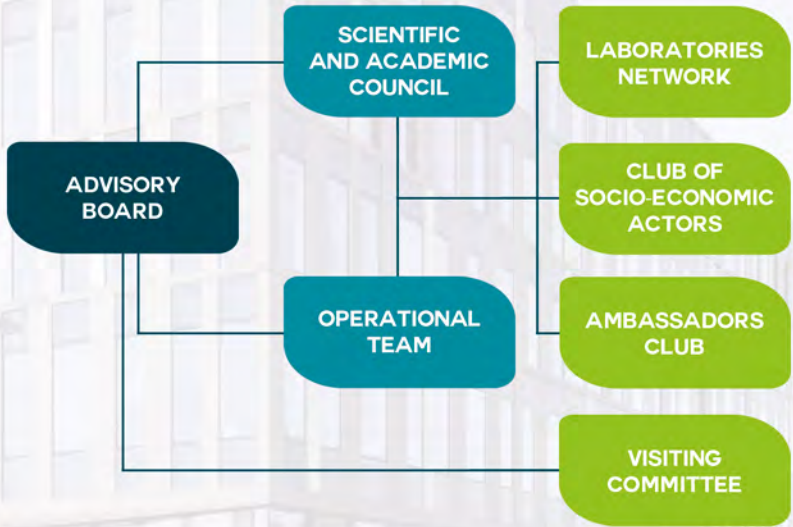


GOVERNEMENT

Liberté
Égalité
Fraternité



EXEBIO INSTITUTE'S GOVERNANCE



**STRATEGIC
OPERATIONAL
ADVISORY**



EXEBIO institute contributes to boost the collaboration between stakeholders of the European regions to develop local bioeconomy and environmental initiatives by promoting high level research and education within Europe



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