FIELD OF STUDY

AGRICULTURE – ENVIRONMENT

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

CAMPUS FRANCE

Environment

- **€32.5 billion** in spending favorable to the environment (2022)
- **€54.3 billion** in spending to protect the environment (2019)

- **322** TWh of electricity produced from renewable sources (2020)
- **58** regional parks
- **9** natural marine parks

- **17 million** hectares of forests covering 31% of France
- **17%** of extinct or endangered species on national Red Lists (2020)

Sources: INSEE and Ministry of Ecological Transition and Territorial Cohesion: www.statistiques.developpement-durable.gouv.fr

The environmental sciences are a set of disciplines concerned with sustainable development and agriculture, the conservation of resources and raw materials, climate and air quality, ecology and natural habitats, ecosystems, water and biodiversity, regional planning, management of natural resources and wastes, alternative energy, and transportation.

Jobs in the field require 2 or 3 years postsecondary technical training. Generalist programs in several fields touch on the environment – among them life and health sciences, Earth and space Sciences, Marine Sciences, and basic disciplines such as agronomy, biology, chemistry, physics, economics, the social sciences and management. The environmental sciences are therefore marked by their interdisciplinarity.

Renewable energy delivers substantial environmental benefits. The principal renewables are solar, wind, hydro, and geothermal, as well as firewood, biomass, biogas, biofuels, urban and industrial waste, and heat pumps.

International

France is a participant in the global effort to achieve the UN Sustainable Development Goals, which cover all forms of development throughout the world. France has chosen clean water and sanitation, clean and affordable energy, sustainable cities and communities, measures to combat climate change, and the protection of marine and terrestrial life as its concentrations for a sustainable European and international transformation. Climate and biodiversity are vital parts of those priorities. Horizon Europe, launched in 2021, is Europe's overarching research and innovation program. It has five missions, including adaptation to climate change and intelligent, carbon-neutral cities. Cluster 6 of Horizon Europe's Pillar II - Food, Bioeconomy, Natural Resources, Agriculture and Environment, is designed to protect the environment; to restore, manage, and sustainably use the biological and natural resources of land and sea, and to ensure food and nutritional security for all in the transition to a low-carbon economy.

RELATED FIELDS

• Agriculture • Agronomy • Architecture • Biology • Chemistry • Earth and Space Sciences • Ecology • Economics and Management • Education • Energy • Engineering • Geography • Geosciences • Law • Life and Health sciences • Marine Sciences • Meteorology • Oceanography • Physics • Public Health • Tourism • Transport • Urbanism

SUBFIELDS

• Agribusiness • Agro-ecology • Alternative Energy • Astronomy • Astrophysics • Biological and Geological Sciences • Biotechnology • Carbon Footprint • Civil Engineering • Climate • Climate Change • Climate Challenge • Climatic Warming • Earth • Ecotechnologies • Ecological Footprint • Environmental Engineering • Epidemiology • Fisheries • Food Production • Forestry • Genetics • Genomics • Geochemistry • Geology • Geomatics • Geophysics • Geotechnics • Glaciology • Greenhouse Gas • Horticulture • Hydrology • Marine Sciences • Natural Environments • Ocean And Sea Sciences • Paleo-Climatology • Planetology • Plants • Pollution • Regional Planning And Development • Sanitary Engineering • Soil • Silviculture • Sustainable Development • Territories • Toxicology • Urbanism • Water • Water

Useful links

- National Environmental Research Alliance (Alliance AllEnvi): **www.allenvi.fr**
- European Centre for Research and Teaching in the Geosciences and Environmental Sciences (CEREGE): **www.cerege.fr**
- Economic, Social, and Environmental Council (CESE): **www.lecese.fr**
- Climate-Environment-Society Consortium: **www.gisclimat.fr**
- ENM Météo-INP Toulouse France (National School of Meteorology): **www.enm.meteo.fr**
- European Geosciences Union: **www.egu.eu**
- European Commission for the Environment: **https://environment.ec.europa.eu/index_fr**
- Horizon Europe: **www.horizon-europe.gouv.fr/cluster-6-bio-environnement**
- National Institute of Sciences of the Universe (INSU): **www.insu.cnrs.fr**
- FRANCE, Ministry for Europe and Foreign Affairs (MEAE): **www.diplomatie.gouv.fr** > Politique étrangère de la France > Climat et environnement
- FRANCE, Ministry of Ecological Transition and Territorial Cohesion: **www.ecologie.gouv.fr**
- French Biodiversity Office (OFB): **www.ofb.gouv.fr**
- National Forestry Office (ONF): **www.onf.fr**
- Partnership for European Environmental Research (PEER): **www.peer.eu**
- United Nations Climate Change – The Paris Agreement: **https://unfccc.int/process-and-meetings/the-paris-agreement**
- Virtual University for the Environment and Sustainable Development (UVED): **www.uved.fr**

LEVEL Licence

BREVET DE TECHNICIEN SUPÉRIEUR (BTS)

NATIONAL DIPLOMA – 2 YEARS OF HIGHER EDUCATION – L2
120 ECTS credits

BTS programs are found in public and private secondary schools and in apprentice training centers. Specialized technical programs related to the environment are available with the following concentrations: Agriculture; nature management and conservation; Technical-commercial (track in Gardens and companion animals); Landscape design; Environmental activities; Water-related activities; Fisheries and management of marine environments; Horticultural production.

DIPLÔME D'ÉTUDES UNIVERSITAIRES SCIENTIFIQUES ET TECHNIQUES (DEUST)

NATIONAL DIPLOMA – 2 YEARS OF HIGHER EDUCATION – L2
120 ECTS credits

Various environmental concentrations and tracks are offered in **D.E.U.S.T.** programs: Environment and waste (track in Environment and waste technician); Applied Geosciences (Mines, water, environment); multilingual nature guide; Community Mediation (Education, culture, social, environmental); Environmental Health (Laboratory techniques); Sea and Coastal technician (track in Environmental and coastal management and planning).

LICENCE

NATIONAL DIPLOMA – 3 YEARS OF HIGHER EDUCATION – L3
180 ECTS credits

Several concentrations and tracks are offered: Chemistry (track in Chemistry and the environment); Law (track in Environment); Economics and management (track in Planning and the environment); Geography and planning (track in Environment); Environmental sciences; Health sciences (track in Health, security, environment); Life and earth sciences (tracks in Geosciences and the environment, environment-related activities); Earth and environmental sciences; Life sciences (track in Toxicology and the environment); Earth, water and the environment.

LICENCE PROFESSIONNELLE

NATIONAL DIPLOMA – 3 YEARS OF HIGHER EDUCATION – L3
180 ECTS credits

The *Licence Professionnelle* is a vocational Bachelor's degree, which offers several third-year concentrations related to the environment: occupations related to environmental law; Agronomy (tracks in Environment-friendly agricultural production, Sustainable development and the environment); Analytical chemistry, monitoring, quality and the environment; Environmental process engineering; Occupations related to energy, the environment, and climate engineering; occupations related to environmental protection and management; Quality control (track in quality, safety, and environment); occupations in building and public works, civil engineering and construction (tracks in environment and construction, energy and environmental performance of buildings, choices that improve environmental quality, sustainable construction); integrated agricultural production and environmental challenges; optimizing agro-resources (track in field crops and the environment).
Among the specializations and tracks offered in the curriculum leading to the Bachelor Universitaire de Technologie (BUT) are Chemistry (track in Analysis, quality control, and environment); Biological Engineering (track in Environmental sciences and ecotechnologies); Hygiene, safety, environment.

www.campusfrance.org > Students > Studying in France > Find your program

LEVEL Master

Environment

MASTER

NATIONAL DIPLOMA – 5 YEARS OF HIGHER EDUCATION – M2
120 ECTS credits

Several environment-related concentrations and tracks are offered at a Master's level:

- **Agrosciences, Environment, Lands, and Forests** (track in Agri-environmental management and use)
- **Biodiversity, Ecology, and Evolution** (track in Biodiversity and environmental monitoring)
- **Biology** (tracks in Molecular biology and microbiology of the environment; Microbiology for environmental health)
- **Chemistry** (tracks in Analytic and environmental chemistry; Chemistry of marine environments; Chemical pollution and environmental management; Environmental and human toxicology)
- **Law and Management** (tracks in Administration, regions, and environment; Consulting and litigation in environmental law; Environmental law and management; International and comparative environmental law)
- **Economics** (tracks in International trade and the environment; the Economics of sustainable development and the environment; Public economy and the environment; Research in environmental impacts; European and international environment and development; Management of the environment and sustainable development; Management of quality, security, and the environment)
- **Process and Bioprocess Engineering** (track in Environmental quality processes)
- **Mechanical Engineering** (track in Environmental and materials process engineering for sustainable development)
- **Geography, Land-use Planning, Environment, and Development**
- **Information and Scientific and Technical Mediation** (track in Scientific information and environmental mediation)
- **Health Engineering** (tracks in Environment and health project management; Environmental research methods)
- **Innovation, Enterprise, and Society** (track in Social and environmental responsibility)
- **Applied Foreign Languages** (track in Environment, climate, and society)
- **Philosophy** (tracks in Applied ethics, environmental and social responsibility)
- **Physics** (track in Environmental monitoring and physical modeling of the environment and risks)
- **Public Policy** (track in Health policy and environmental risks)
- **Risks and the Environment**
- **Public Health** (track in Sciences of environmental health risks and workplace health)
- **Earth, Planetary, and Environmental Sciences**
- **Life Sciences** (track in Biodiversity and environment)
- **Agricultural, Food-related, and Environmental Sciences and Technologies**
- **Environmental Sciences** (tracks in Environmental management and coastal ecology; Environmental management)
- **Social Sciences** (tracks in Environmental policy and social practices; Socio-environmental transformations)
- **Strategies for Sustainable Development, Social and Economic Responsibility, and the Environment**

Programs taught in English: Agrosciences, Environment, Land Use, and Forestry; Biodiversity, Genomics and Environment; Biology and Environmental Biotechnologies; Chemical and Microbiological Characterization for Environmental Issues; Development and Environmental Studies (adaptation to Climate Change and to Arctic Studies); Disaster Management and Environmental Impact; Earth and Planetary Sciences, Energy and the Environment; Ecotechnologies for Sustainability and Environmental Management; Environment, Energy, and Transport Economics; Environmental Contamination and Toxicology; Environmental Engineering; Environmental Hazards and Risk Management; Environmental Management and Sustainable Development; Environmental and Natural Resource Economics; Environmental Risk, Water and Wind Engineering; Environmental Science and Engineering; Environmental Science and Policy; Environmental Sustainability Law and Policy; Evolutionary Ecology in Aquatic Environments; Forests and their Environment; Marine Environment and Resources; Geomatics and Environment; Project Management for Environmental and Energy Engineering; Transitions in Environmental and Agrifood Systems Management; Water and Environmental Management.

TITRE D'INGÉNIEUR DIPLÔMÉ (ENGINEERING DEGREE)

MASTERS LEVEL – 5 YEARS OF HIGHER EDUCATION – M2
120 ECTS credits

Energy, risk and environment; Partnerships for environmental and risk management; Land use and environmental engineering; Water engineering and the environment; Energy engineering and the environment; Environmental engineering; Process engineering and the environment; Risk management and the environment; Geosciences and the environment; Sciences and industries related to life sciences and the environment. See also: **www.cti-commission.fr/accreditation**

Programs taught in English: Disaster Management and Environmental Impact; Environmental Risk, Water and Wind; Project Management for Environmental and Energy Engineering; Environmental Science; Science and Technology of Agriculture, Food, and the Environment; Transitions in Environmental and Agrifood Systems Management. **https://taughtie.campusfrance.org**

LEVEL

Beyond the Master level

MASTÈRE SPÉCIALISÉ® (MS)

INSTITUTION DIPLOMA – 1 YEAR OF HIGHER EDUCATION

Project Manager, Environmental and Industrial Renovation; Renewable Environmental and Energy Efficiency (Expert in Environment and Sustainable Development); Environmental Engineering and Management; Engineering and Management of Health, Environmental, and Workplace Risk; Integration of Quality, Hygiene, Safety, and Environmental Management Systems; International Environmental Management; Quality, Safety, and Environmental Management; Management of Sanitary, Food-Related, and Environmental Risks; Environmental and Energy Eco-Efficiency Management; Public Policy and Strategies for The Environment; Industrial and Environmental Safety and Security; Energy Transitions and Regional Environments.

List of MS programs:
www.cge.asso.fr/formations-labellisees/liste-formation-ms/

ECTS: European Credit Transfer System