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XII CENTURY

FREEDOM OF RESEARCH

Federico I Barbarossa recognises the University as a *libera societas* of masters and students. The empire undertakes to protect scholares travelling for the purposes of study. For the first time, the absolute freedom of research is ratified.

CENTURY

-XV CENTURY

BROADENING THE HORIZONS OF KNOWLEDGE

In the 14th Century, so-called "artists" - scholars of Medicine, Philosophy, Arithmetic, Astronomy, Logic, Rhetoric, and Grammar - begin to collaborate with the schools of jurists. Bologna becomes an obligatory destination for all the eminent intellectuals of the time.

THE BIRTH OF THE UNIVERSITY

The Studium in Bologna is the first home of free teaching, independent from ecclesiastic schools. The Irnerio school of law marks the birth of Western universities.

ONE CITY, MANY NATIONS

The University bears witness to its nature as an international community with students from far and wide: over 2,000 students from all across Italy and Europe. The University maintains its autonomy against all outside interference.

FROM BOLOGNA TO THE WORLD Medicine and philosophy

Medicine and philosophy, natural sciences and mathematics, engineering and economics are the major subjects of a university that has become an undisputed international authority in all fields of knowledge.

NEW CHALLENGES

The University continues to play an undisputed central role among many other places of learning and research institutions. It continues to cooperate with all major institutions in the world, within an increasingly dynamic and complex global framework.

1999 BOLOGNA **PROCESS**

preliminary declaration regarding the creation of a common European Higher Education Area is signed in Bologna by the Foreign Ministers of 29 countries.

THE UNIVERSITY LOOKS TO THE FUTURE

With a view to meeting the challenges imposed by modern society and directing all our institutional activities towards the pursuit of sustainable development, the University planning and reporting processes now take full account of the 17 sustainable development goals proposed in the 2030 Agenda adopted by the General Assembly of the United Nations.

THE MOTHER OF ALL **UNIVERSITIES**

In 1888, the University celebrates its eighth centenary, a grand event held in Bologna attended by representatives of all the world's universities, honouring the Alma Mater Studiorum as the mother of all universities. The Bologna festival becomes an international day of study.

AN INTERNATIONAL **AGREEMENT**

Celebrating the Alma Mater's ninth centenary, the Rectors of 500 European universities meet in Bologna to sign the Magna Charta Universitatum to confirm the essential values and autonomy of universities.

20TH ANNIVERSARY OF THE BOLOGNA **PROCESS**

The event held to celebrate the 20th anniversary of the signing the Declaration of Bologna is attended by 200 Rectors and over 1,000 professors, students and researchers from over 70 countries, along with representatives from various ministries and international organisations.



UNIVERSITY BODIES

- Rector, supported by 6 Vice-Rectors: Deputy Rector, Vice Rectors for Teaching, Human Resources, International Relations, Research, and Digital Transformation.
- Academic Senate: composed of 35 members (Rector, 10 Heads of Department, 15 professors and researchers, 3 professional staff representatives, 6 student representatives)
- Board of Governors: composed of 11 members (Rector, 5 internal members, 3 external members, 2 student representatives)
- Board of Auditors: composed of 3 statutory members and 2 substitute members
- University Evaluation Unit: composed of 6 members, 1 of whom is a student representative.
- Director General

AUXILIARY BODIES

- Student Council: composed of 33 members
- Professional staff committee: composed of 24 members
- Sponsors' Committee, which is composed of 9 members: the Rector, who chairs the committee, and the other members representing the bodies and institutions working to promote and develop scientific and learning activities and the transfer of knowledge in the various fields and regions in which the University operates
- Student Ombudsman
- Guarantee committee for equal opportunities, employee well-being and non-discrimination at work (CUG)

5 SCHOOLS

- Economics and Management
- Engineering
- Arts, Humanities and Cultural Heritage
- Medicine
- Science

31 DEPARTMENTS

Medicine

- Biomedical and Neuromotor Sciences
- Medical and Surgical Sciences
- Veterinary Medical Sciences

Science

- Chemistry "Giacomo Ciamician"
- Industrial Chemistry "Toso Montanari"
- Pharmacy and Biotechnology
- Physics and Astronomy "Augusto Righi"
- Mathematics
- Biological, Geological and Environmental Sciences
- Life Quality Studies

Social Studie

- Business Science
- Economic Sciences
- Law
- Political and Social Sciences
- Statistical Sciences "Paolo Fortunati"
- Sociology and Business Law

Technology

- Architecture
- Computer Science and Engineering
- Civil, Chemical, Environmental and Materials
- Engineering
- Electrical, Electronic and Information
- Engineering "Guglielmo Marconi"
- Industrial Engineering
- Agricultural and Food Sciences

Humanities

- The Arts
- Classical Philology and Italian Studies
- Philosophy and Communication
- Modern Languages, Literatures and Culture
- Psychology "Renzo Canestrari"
- Education Studies "Giovanni Maria Bertin"
- History, Culture, Civilisation
- Cultural Heritage
- Interpreting and Translation



CESENA CAMPUS

The main vocations

- Agrifood
- Architecture
- Ict and Bioengineering
- Psychology

Schools

• Engineering

Departments and Local Organizational Units (*U.O.S.*)

- Architecture (Department and U.O.S.)
- U.O.S. Computer Science and Engineering
- U.O.S. Electrical, Electronic and Information
- Engineering "Guglielmo Marconi"
- U.O.S. Psychology "Renzo Canestrari"
- U.O.S. Agricultural and Food Sciences
- U.O.S. Veterinary Medical Sciences

FORLÌ CAMPUS

The main vocations

- Economics and Social Sciences
- Mechanical and Aerospace Engineering
- Translation and Interpreting

Schools

• Economics and Management

Departments and Local Organizational Units (*U.O.S.*)

- Business Science Forlì campus
- Interpreting and Translation
- U.O.S. Industrial Engineering
- U.O.S. Economics
- U.O.S. Sociology and Business Law
- U.O.S. Political and Social Sciences

RAVENNA CAMPUS

The main vocations

- Environments and Sea Rights
- Cultural Heritage

Schools

• Arts, Humanities and Cultural Heritage

Departments and Local Organizational Units (*U.O.S.*)

- Cultural Heritage
- U.O.S. Industrial Chemistry "Toso Montanari" (Faenza)
- U.O.S. History, Culture, Civilisation
- U.O.S. Biological, Geological and Environmental Sciences
- U.O.S. Law
- U.O.S. Chemistry "Giacomo Ciamician"
- U.O.S. Civil, Chemical, Environmental and
- Materials Engineering

RIMINI CAMPUS

The main vocations

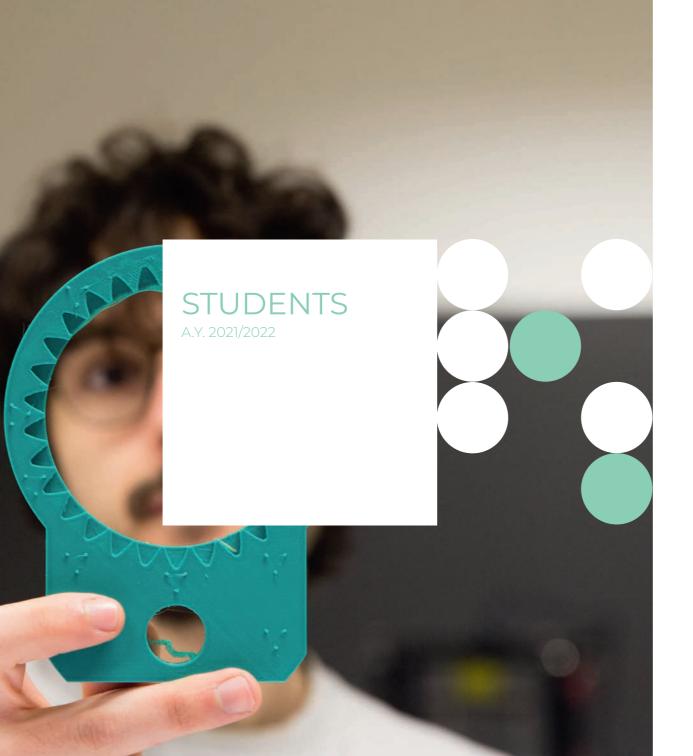
- Sustainable Development and well being
- Services for individuals, businesses and communities
- Tourism and Fashion

Schools

• Economics and Management

Departments and Local Organizational Units (*U.O.S.*)

- Business Science Rimini campus
- Life Quality Studies
- U.O.S. Industrial Chemistry "Toso Montanari"
- U.O.S. Economics
- U.O.S. Statistical Sciences "Paolo Fortunati"
- U.O.S. Chimica "Giacomo Ciamician"
- U.O.S. for the Arts





STUDENTS ENROLLED IN UNDERGRADUATE AND POSTGRADUATE DEGREE PROGRAMMES

93,753



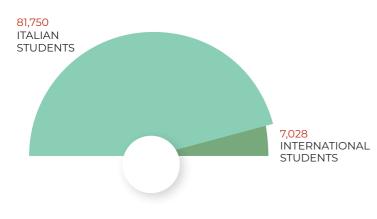
OF WHICH INTERNATIONAL STUDENTS

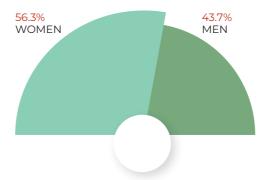
7,630

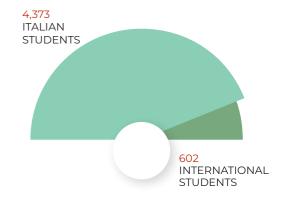
STUDENTS ENROLLED IN DEGREE PROGRAMMES: 88.778

STUDENTS ENROLLED IN **DEGREE PROGRAMMES BY GENDER**



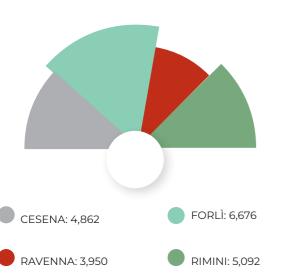


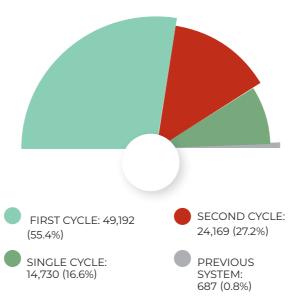




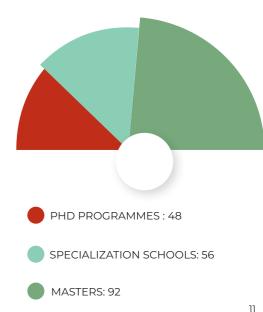
ENROLMENTS BY CAMPUS: 20,580 (23.2%)

ENROLMENTS BY DEGREE PROGRAMME





POSTGRADUATE TRAINING





INTERNATIONAL MOBILITY



FROM BOLOGNA TO EUROPE (ERASMUS+)

3,353



FROM EUROPE TO BOLOGNA (ERASMUS+)

2,862



EUROPEAN STUDENTS (ERASMUS+ COUNTRIES) ENROLLED IN DEGREE PROGRAMMES

2,155



INTERNATIONAL, NON-EUROPEAN STUDENTS ENROLLED IN DEGREE PROGRAMMES

4,872

BALKANS, NEAR EAST, RUSSIAN FEDERATIO	ON
Active agreements	44
Students enrolled at the University of Bologna	1,084
Exchange students:	
incoming	74
outgoing	24
Double, multiple or joint degree programmes	2

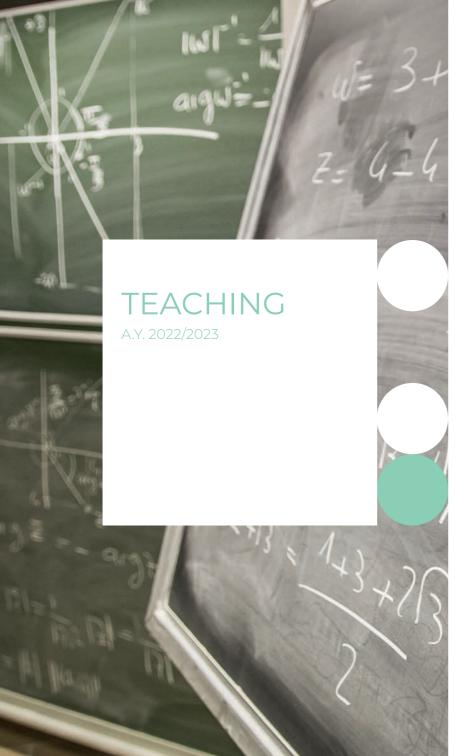
AFRICA AND MIDDLE EAST	
Active agreements	52
Students enrolled at the University of Bologna	1,479
Exchange students:	
incoming	53
outgoing	23
Double, multiple or joint degree programmes	1

NORTH AMERICA	
Active agreements	40
Students enrolled at the University of Bologna	94
Exchange students:	
incoming	207
outgoing	85
Double, multiple or joint degree programmes	2

LATIN AMERICA	
Active agreements	93
Students enrolled at the University of Bologna	476
Exchange students:	
incoming	137
outgoing	79
Double, multiple or joint degree programmes	3

ASIA	
Active agreements	77
Students enrolled at the University of Bologna	1,729
Exchange students:	
incoming	58
outgoing	33
Double, multiple or joint degree programmes	6

OCEANIA	
Active agreements	21
Students enrolled at the University of Bologna	10
Exchange students:	
incoming	0
outgoing	9
Double, multiple or joint degree programmes	0





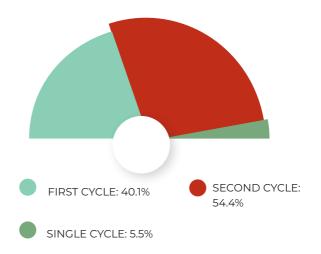
DEGREE PROGRAMMES

252

OF WHICH 96 INTERNATIONAL:

- 56 TAUGHT IN ENGLISH
- 23 TAUGHT IN ENGLISH DOUBLE/MULTIPLE DEGREES
- 17 DOUBLE/MULTIPLE DEGREES NOT TAUGHT IN ENGLISH

PROGRAMME CATALOGUE BY CYCLE



PROGRAMME CATALOGUE BY CAMPUS

RIGHT TO HIGHER EDUCATION

Tuition Fess are determined according to ISEEs (Family Financial Indicator).

Full exemption is granted for ISEEs up to 24,500.00 €.

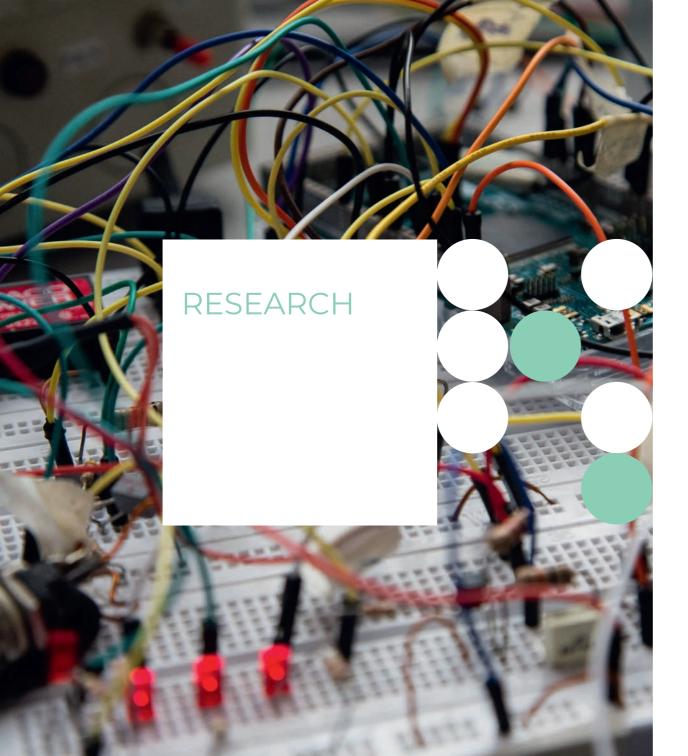
Above this threshold, the tuition fees increase proportionally, with special subsidies for the lowest incomes. The subsidized contribution is a fixed amount for those coming from non-EU, particularly poor or non-OECD countries.

There are new benefits such as:

- a financial contribution for the rental costs of those who are off-site
- partial exemptions for those who enroll in the second year "fuori corso" (past envisaged completion of time for the degree programme) and only owe the final exam.

CAMPUS	FIRST CYCLE	SECOND CYCLE	SINGLE CYCLE	TOTAL
BOLOGNA	69	99	8	176
CESENA	9	9	1	19
FORLÌ	7	11	1	19
RAVENNA	8	8	3	19
RIMINI	8	10	1	19
TOTAL	101	137	14	252

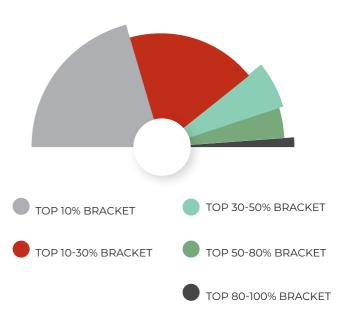
RIGHT 1	O HIGHER EDUCATION - THE NUMBERS (ACADEMIC YEAR 2021/2022)
12,662	ER.GO. (Regional Authority for the Right to Higher Education) study grants
2,347	study grants for part-time collaborations within university services
2,127	ER.GO student accommodation spaces
754	tutoring grants
453	merit-based scholarships
350	for scholarships for students from disadvantaged backgrounds
23,507	total exemptions from tuition fees (including theexemptions of those entitled to ER.GO study grants and those deriving from the new structure of thestudent fees system)
23,071	partial exemptions from tuition fees (calculated based on economic circumstances)



SCIENTIFIC PRODUCTION: 12,336

An analysis of Clarivate Analytics' Essential Science Indicators regarding articles published in 2012-2022 in journals indexed in the Web of Science Core Collection shows that the University is cited heavily in almost every discipline (21 out of 22) and that 999 articles written by University researchers are highly cited papers, i.e. included in the top 1% of works cited at the global level (highly cited papers) and/or have had a particularly large number of citations in the past two months (hot papers).

With regard to Scopus data (Elsevier, October 2022), almost 8,000 publications (41% of the total) from the 2019-2021 period recorded in the IRIS catalogue have been published in indexed journals that rank among the top 10% worldwide.



OUTSTANDING MULTIDISCIPLINARY RESEARCH



Agri-food, bioeconomics, natural resources, agriculture and the environment



Climate, energy and mobility



Culture, creativity and inclusive societies



Digital, industry and space



Health



Public safety

COMPETITIVE PROGRAMMES

EUROPEAN PROGRAMMES

>41 mln € HORIZON EUROPE (2021-2027)

• 92 projects funded: 16 coordinated, 6 of which are ERC

>150 mln € HORIZON 2020 (2014-2020)

- 350 projects funded: 98 coordinated, 26 of which are ERC
- > 3,000 partner involved, 1,600 of which are private
- First Italian university for contributions obtained on the pillar dedicated to social challenges (Health, Food, Energy, Transport, Climate, Social Inclusion, Security)

>10 mln € OTHER EUROPEAN FUNDING (2014-2020)

- INTERREG: >6 milion euros; 25 projects funded, 5 of which as coordinator
- LIFE: >3.8 milion euros; 11 projects funded, 4 of which as coordinator
- Creative Europe: >0.2 milion euros; 4 projects funded, 2 of which as coordinator

2,3 mln € JOINT INITIATIVES

- JPI (2013-2019): >1.5 milion euros; 15 projects funded, 4 of which as coordinator
- ERANET (2014-2021): >2.5 milion euros; 23 projects funded, 10 of which as coordinator
- PRIMA (2018-2020): >2.5 milion euros;
 12 projects funded, 4 of which as coordinator



DEPARTMENTS OF EXCELLENCE

Since January 2023, 11 Departments are involved in the initiative financed by the MUR (Italian Ministry for University and Research) with 88.3 million euros, envisaging, in addition to the ministerial funding, investments for a further 42 million euros.

Investments are planned as follows:

- > 16.4 million euros for highly qualified educational activities, among which the activation of more than 80 PhD scholarships and numerous interventions to support 2^{nd} and 3^{rd} cycle teaching.
- > 17.6 million euros for infrastructure, which will concern building and energy efficiency interventions, the acquisition of research equipment and bibliographic resources.
- > 95.6 million euros for recruitment, resulting in 70 researchers and professors, 27 units of permanent technical-administrative staff for the development of the Departments involved and contracts for fixed-term research support staff.

NATIONAL PROGRAMMES

>29 mln €

PRIN 2020: 62 projects funded, 40 of which with members of the Alma Mater in the role of national coordinators. University of Bologna ranks second among Italian universities in terms of the number of projects approved for which it is the national coordinator and third in terms of the amount allocated.

PRIN 2017: 134 projects funded, of which 40 with members of the Alma Mater in the role of national coordinators. The University of Bologna is the top Italian university in terms of the number of projects approved for which it is the national coordinator and second in terms of the contribution for "A-general" and "B-under 40" lines of funding".

>5 mln € OTHER NATIONAL FUNDING (2014-2020)

NATIONAL OPERATIONAL PROGRAMME (PON) FOR INNOVATION RESEARCH: >2.6 milion euros; 13 projects funded;

FISR: >1.3 milion euros; 14 projects funded;

Rita Levi Montalcini Programme: >1.9 milion euros; 9 projects funded.

REGIONAL AND LOCAL PROGRAMMES

>41 mln €;

POR-FESR (2014-2020): 23 milion euros, 80 projects funded;

PSR (2014-2020): 4 milion euros, 74 projects funded;

Advanced Skills (2016-2021): 7.3 milion euros, 147projects funded;

Funding from Foundations (2017-2022): 3.6 milion euros, 144 projects funded; 137 of which coordinated.

RESEARCH PROMOTED BY THE UNIVERSITY

The University of Bologna supports free research and works to protect and strengthen its scientific diversity, in terms of disciplinary specificities and interdisciplinary potential, by increasing and enhancing research resources. To this end, during 2022 the University promoted the allocation of internal funding, to stimulate innovative project ideas and proposals ('Alma Idea', 2,000,000 euros), to upgrade and share research equipment ('Alma Attrezzature 2022', 2,000,000 euros), to support excavation activities and archaeological research in the field ('Alma scavi' 300,000 euros) to strengthen participation in the 'ActionsMarie Sklodowska-Curie' (MSCA) of the European Framework Program for Research and Innovation Horizon Europe, through the internal tender 'ALMArie Curie'.

PNRR ("NATIONAL RECOVERY AND RESILIENCE PLAN")

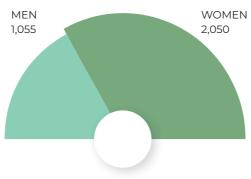
- Innovation ecosystems, 1 approved project, with funding of 22.5 million euros.
- Research infrastructures, 11 proposals presented, of which 8 approved, with funding of 12.4 million euros.
- "National Champions", 5 projects approved, with funding of 55.3 million euros.
- Extended partnerships, 13 proposals submitted and approved, with funding amounting to 96.8 million euros.
- Complementary National Plan PNC MUR, 1 proposal presented and approved, with funding of 24.7 million euros.



TEACHING STAFF: 3,122 PROFESSIONAL STAFF: 3,105 **FULL PROFESSORS: 831** STAFF CATEGORIES: B, C, D, EP: 3,012 ASSOCIATE PROFESSORS: 1,438 FOREIGN LANGUAGE ASSISTANTS: 75 RESEARCHERS: 853 MANAGERS: 18 **TEACHING STAFF** PROFESSIONAL STAFF BY GENDER BY GENDER MEN MEN WOMEN 1.848 1,274

GUARANTEE COMMITTEE FOR EQUAL OPPORTUNITIES, EMPLOYEE WELL-BEING AND NON-DISCRIMINATION AT WORK (CUG)

The CUG works actively on the development of an equal opportunities culture, the promotion of occupational well-being and measures against discrimination in the workplace. The Committee makes use of the University services dedicated to the promotion of organisational well-being and works in collaboration with the Confidential Counsellor, the Evaluation Unit and the Head of the Prevention and Protection Service and all those in the University assigned to work in the areas covered by the CUG. In 2018, the Committee approved the positive action plan for 2018-2021, covering training, awareness and communication measures, the further protection and assurance of equal opportunities, and the promotion of employee well-being and a proper work-life balance. In 2021, the CUG assisted with the drafting of the Gender Equality Plan (GEP 2021-2024) and will monitor its future implementation.





INDUSTRIAL RELATIONS

49 ACTIVE FRAMEWORK AGREEMENTS with major businesses and business associations in key sectors (energy, ICT, chemicals, finance, automation, fashion and agri-food).

6 JOINT RESEARCH LABORATORIES

with industries in which university and company researchers, PhD and other students collaborate daily, with a mutual benefit deriving from the sharing of skills and approaches.

4 ADVANCED VOCATIONAL TRAINING SCHOOLS for employees of companies that have chosen to entrust the realisation of their "company academy" to the University of Bologna and that plan to roll out a series of courses co-designed with the company under the supervision of a scientific committee. To these are added 3 agreements with associations aimed at the creation of courses for employees of different companies, with common training needs, and 16 Courses of Higher Education on specific subjects entrusted to the University of Bologna by

of the National Industry Plan 4.0. BI-REX (Big Data Innovation & Research Excellence). This is a public-private partnership of 43 companies and 12 universities and research bodies, the creation of which was led by the University of Bologna, and which represents a strategic

individual companies

partner for the University for many innovation and training initiatives targeted in particular at small and medium enterprises.

PLACEMENT SERVICES. In 2022 almost 8,400 Italian and international companies published more than 4,900 job offers on the online noticeboard and consulted 67,000 CVs of the University's graduates. The University organises various initiatives to bring graduates together with representatives from the world of work such as career days, sector specific recruitment weeks (for example in 2022: Fashion Recruiting Week Online, Career Day and Veterimary Medicine Recruiting Day) and initiatives with individual companies. In 2022 all of the initiatives took place online and involved over 172 companies.

40 SPIN-OFF COMPANIES accredited and active in 202, 19 of which with Almacube's participation in the capital. The 40 companies generate revenues of around 24 million euros (2021).

14 START UP COMPANIES accredited and active in 2021, 1 of which with Almacube's participation in the capital. These companies generate a total revenue of around 1 million euros (2021 financial statements).

BUSINESS INCUBATION AND DEVELOPMENT

Almacube, which is the University's business incubator and which was certified by the Italian Ministry of Economic Development (MISE) in 2019, has managed 20 incubated businesses

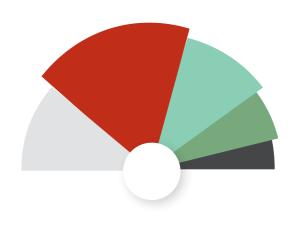
Behold srl, a service holding company established in 2021 and 100% owned by the University of Bologna, carries out the activities necessary for the management of equity investments in accredited spin-off companies, exclusively in the interest of the latter, and supports the University in pre-incubation activities and in the activation of networks and relationships for business acceleration

In the campuses, support for business development and incubation is provided through the Cesenalab at Cesena campus and Innovation Square at Rimini campus. At Forlì campus, students can access the Basement Club, which is a project aimed at helping university students develop transferable skills and an entrepreneurial approach.



PATENTS AND LICENCES

140 new patent applications filed in 2020, 29 of which were new submissions. As at 31December 2021, the University's active patent portfolio contained 599 titles, deriving from 181 inventions. It also has 26 patented vegetable varieties. As at 31/12/2021, around 20% of the patent families (licenses, options, etc.) and 90% of the vegetable variety families were being exploited.



- INDUSTRY, DIGITAL
 AND SECURITY: 22.6%
- HEALTH 36.5%
- BIOECONOMICS, AGRICULTURE AND THE ENVIRONMENT: 20.7%
- VEGETABLE VARIETIES: 12.5%
- CLIMATE, ENERGY AND MOBILITY: 7.7%

SOCIAL ENGAGEMENT, COOPERATION AND DEVELOPMENT

The University of Bologna promotes initiatives to raise awareness of cooperation and development in the academic and local communities. It also collaborates with national and international non-governmental organisations (NGO) to offer students the possibility of completing their studies through practical experience in the field.

The University is currently involved:

- in 2 platforms of the Knowledge Partnership programme of the Italian Agency for Cooperation and Development (AICS) which seeks to promote scholarship schemes for students from developing countries and to create think tanks between Italian universities on themes related to Sustainable Development Goals;
- in the "Italian support for university education in Somalia" initiative, which promotes advanced training in Italy for graduates of the Somali National University;
- in 23 Erasmus Plus Capacity Building projects, 5 of which entail coordination responsibilities, thus making the Alma Mater among the most active European universities in this area. These Capacity Building projects provide support in strengthening universities located in the southern hemisphere;
- in 1 Erasmus Plus Capacity Building Youth project which will develop a strengthening program for the promotion of social cohesion and empowerment of young Syrian refugees and local youth in Turkey,

Lebanon and Jordan;

- in 2 training and technical support initiatives with a coordinating role, funded by the Italian Cooperation Agency;
- in 6 projects funded by the Italian Cooperation Agency within the programs for Civil Society Organizations (2 CSO projects) and for Global Citizenship Education (4 ECG projects);
- in 1 funded project concerning cooperation in the development of the European Union on the theme of developing global citizenship;
- in 5 NGO projects funded by the Emilia-Romagna Region for decentralised cooperation;
- in 2 European "Intra-Africa Mobility" projects in order to promote the development and implementation of new mobility schemes between African universities. The University of Bologna acts as a technical partner;
- in 5 international development cooperation initiatives carried out in Senegal, Kenya, Ethiopia and Syria and promoted by the departments in partnership with local actors and financed by the Unibo Global South initiative of the University.

UNIBO4REFUGEES AND UNI-CO-RE (UNIVERSITY CORRIDORS FOR REFUGEES – ETHIOPIA – UNIBO)

The University of Bologna is opening its doors to refugee students: through a process of guidance and selection, students can complete their studies and rebuild their future.

The UNIBO4REFUGEES project allows students to enrol on course units and Italian language courses of the University of Bologna, as well as on degree programmes once protection is obtained, without having to pay any fees.

The University Corridors for Refugees UNI-CO-RE project is promoted by 22 Italian universities with the support of the UNHCR, the Ministry of Foreign Affairs and International Cooperation, Italian charities, Diaconia Valdese and other partners. The goal is to increase opportunities for refugees currently resident in Ethiopia to continue their higher education in Italy.



PUBLIC ENGAGEMENT

The University's public engagement also takes the form of multiple dissemination activities: articles, interviews, video reviews, podcast reviews, face-to-face and online events including **the Researcher's Night**, which is held each year in all the cities of the Multicampus. In addition to these activities, there are exhibitions, guided tours, seminars, conferences, ceremonies, shows and workshops organised by the University, the Departments and Research Centres.

UniboMagazine is the University's online information medium. The magazine reports on cultural initiatives and awards, features guest writers, and provides further information on innovations and research.

Unibocultura is a newsletter and website dedicated to cultural events promoted by the University, which collects reviews and main events. It organizes guided tours of the historic buildings of the University.

UNIVERSITY LIBRARY SYSTEM (SBA)

The Library System is the coordinated set of the 98 libraries and facilities that provide bibliographic and documentary services to the University to support education as well as teaching, research, professional and cultural activities.

It has a total inventory of 4.3 million volumes and 6,200 journal subscriptions, with over 5,600 workstations for study and research. It offers services such as the inter-library loan of books and articles (also through agreements with other universities and bodies), guidance and support in conducting bibliographic research, information literacy training, and open access support. As well as the standard library services, it also provides access to 800 databases, 55,000 online periodicals, and 620,000 e-books..

Among the university's libraries, there is **BOLOGNA UNIVERSITY LIBRARY** (BUB)

The University's central library focuses on the protection, use, valorisation and development of the antique print and manuscript collections, including the post-Napoleonic document archives. It also provides support for research through a broad modern collection available in an automated storage system. It is the official editorial repository for the metropolitan area of Bologna. It also comprises the "Umberto Eco" International Centre for Humanities.

The BUB promotes public engagement (guided tours of the monumental rooms, temporary

exhibitions, outreach initiatives) with a view to strengthening dialogue and relations with civil society. It also provides free access online and through its social networks to digital copies of extracts or entire collections - papyruses in Greek and Latin, Greek and Arabic manuscripts, Aldrovandian tales, antique works in print, catalogues and photographs - so as to ensure free enjoyment of the same.

UNIVERSITY MUSEUM NETWORK (SMA)

The network comprises 15 structures - including Museums, Collections and a digital museum space - dedicated to various disciplines.

The University Museum Network is heavily involved in teaching activities for school pupils at all levels, as well as in the protection of assets through conservation, restoration and cataloguing measures that ensure maximisation of the benefits deriving from the collections also for research and learning purposes. The network also promotes public engagement activities and the dissemination of scientific culture in collaboration with public and private national and international institutions.

With a view to keeping an open and continuous dialogue with the public, the network is using digital communication tools that allow a new approach to museum heritage.

THE FEDERICO ZERI FOUNDATION

This centre for research and specialist training in the field of art history, established to protect and disseminate the works and legacy of Federico Zeri, conserves and promotes his extraordinary bequest: an Art Library (46,000 volumes and 37,000 auction-house catalogues) and a Photographic Library (290,000 photographs). The addition of new photographic collections to the original collections has significantly increased the assets, which today comprise 435,000 photographs of monuments and works of art. The University's goals include the cataloguing and digitalisation of the photographic library: currently the online database contains more than 180,000 images, a number which continues to grow. It can be accessed free of charge and is considered the most important repository of Italian art conserved on the web. There has also been an intensive focus on advanced training with seminars and courses on art history and the cataloguing of photographic archives, which represent a significant opportunity for learning and updating skills in the field.

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