

annual report 23-24



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Letter from the President

This annual report that you have in your hands is the last one in which I will write the introduction as the President of the Board of Trustees. At the beginning of 2025, I will no longer be the President of the IQS Board of Trustees after more than fourteen years in office. I am happy and grateful to God for the path I have traveled, for the people I have met, and for the support they have always offered me. I am grateful to all the people who work at IQS and their vast commitment, dedication, and responsibility. They have all helped me feel closer to the day-to-day work at the institution, the complexity at IQS, and the daily and extraordinary challenges. With my sincerest gratitude, I would like to share some reflections resulting from my personal experiences and the reflections that my time at IQS has resulted in.

IQS is a fantastic institution with spirit, engaged in continuous discernment to define where to go, how to do it, and with whom. We do not shy away from self-criticism in this discernment as we review proposals, methodologies, and personal testimonies. We assess whether our educational offering is rigorous, aware that carrying out a task and doing the job right requires an enthusiastic faithfulness that always demands effort. Our efforts are born from the vital discovery that imagining, planning, building, carrying out, and completing a project is the result of work, the result of an action that makes the result belong to us, not because we have bought it, but because it is our personal work. We assess whether our educational offering helps to prepare people who are capable of building through their efforts, not destroying. We educate individuals who understand that criticism is not an objective in itself, but a necessary moment in the shared search for truth, a search that always requires effort. We prepare men and women who care about finding that little glimmer of hope that is born every morning in the present, who know how to combine efforts and reject everything that contributes to diminishing them. We need enthusiasm and people who create it, who propose collective projects that excite, and who give personal answers and meaning to life.

We assess the methodology used in our educational efforts, which must be based on a method, have an identity, and establish objectives. We cannot forget that, in educational processes, ideals without methods are blind, just as methods without ideals are empty.

Another fundamental aspect involves assessing the quality of our professors, relying on the personal testimony of the individuals who give a human face to the knowledge, values, and attitudes they present, making spoken theoretical formulations become vibrant and lead the way. The Book of Proverbs states as much: *For the commandment is a lamp and the teaching a light, and the reproofs of discipline are the way of life* (Proverbs 6:23).

Along with the fine memories of these nearly fifteen years, I would also like to highlight the solid work done at IQS, the people who do it, and its leaders. I have witnessed it all. May God bless you! I am certain He will.

Enric Puig Jofra, SJ

President of the IQS Foundation



Letter from the Director

Academic year 2023-2024 has been intense at IQS. The past year has seen the inauguration of new facilities and the introduction of new degrees. We have also worked on consolidating the guidelines of our strategic plan, especially in promoting research, strengthening our identity and mission, and putting the students at the centre of IQS's activity.

Among other initiatives, this approach has been reflected in the remodelling of the ground floor of our campus to bring better services to our students. This renovation has made it possible to establish the Student Services Office (OAE) as the primary way of interaction between students and IQS services. At the same time, internal processes have been improved, allowing us to offer a more efficient and personalized service to students.

The remodelling has also impacted the Department of Analytical Chemistry and Organic Chemistry research laboratories. With the collaboration of the companies Sciex and JEOL, we have created two unique laboratories: one for liquid chromatography-mass spectrometry and a second for nuclear magnetic resonance. These spaces represent an advance in our commitment to research and innovation.

In the academic field, we have started the third year of the Bachelor's Degree in International Business and the second year of Biomedical Sciences. All available spots

have been filled, a clear indicator of the growing interest in our educational offering and the trust placed in our teaching model.

It has also been an extraordinary year for research at IQS. We have tripled the number of competitive projects in progress and the number of researchers hired. We are proud of the excellent work that our researchers are doing, and with all the talent that has joined us in recent years, we are confident of maintaining and enhancing this growing dynamic in the future.

Of all the events held this year at IQS, I would like to highlight one in particular: the visit by Professor David MacMillan, 2021 Nobel Laureate in Chemistry, who received an honorary doctorate from Ramon Llull University. His wisdom, affable character, and esteem for IQS researchers left a deep and indelible mark on us.

We invite you to read the pages in this Annual Report, where we proudly highlight our activities and achievements. IQS is a University Centre of the Society of Jesus, a member of Ramon Llull University, is always open to the world, and has a clear calling to serve society.

Dr Salvador Borrós Gómez

Director of IQS





IQS organizes its academic programmes through its two faculties: the IQS School of Engineering, for scientific and technical studies, and the IQS School of Management, which teaches studies related to business administration and management. A founding member of Ramon Llull University, IQS is a prestigious institution renowned domestically and internationally for its scientific education and academics, which makes it a model university in the educational community.

BACHELOR'S DEGREES

- **Bachelor's Degree in Chemistry and Bachelor's Degree in Chemical Engineering.** These programmes enable students to acquire a solid foundation of scientific knowledge, learn hands-on laboratory skills, as well as gain access to the industrial world to design, develop, and apply productive processes.
- **Bachelor's Degree in Biotechnology.** This programme offers a solid foundation of scientific knowledge to work in the field of biotechnology, with a special emphasis on environmentally friendly, sustainable, and product-generating methods of production that contribute to progress and wellbeing.
- **Bachelor's Degree in Pharmacy.** This programme offers a solid foundation of knowledge in all aspects related to drugs and medicines, which allows graduates to enter the healthcare system by providing personalized healthcare and pharmacotherapeutic knowledge. This bachelor's degree is taught jointly with Blanquerna.
- **Bachelor's Degree in Industrial Engineering.** This programme offers a multidisciplinary education in industrial technologies that allows graduates to take action in designing, developing, and creating useful goods for society as a whole.
- **Bachelor's Degree in Biomedical Sciences.** This bachelor's degree is aimed at acquiring knowledge in biosciences that make it possible to apply research in the field of medicine so students can better understand the pathological mechanisms that cause human diseases and treat them more efficiently.
- **Bachelor's Degree in Business Administration and Management.** With the possibility for students to take classes taught entirely in English, or progressively from Spanish to English, this programme provides knowledge pertaining to the different areas of the business world: economics, finance, accounting, marketing, human resources, and management.
- **Bachelor's Degree in Marketing.** This programme prepares students to manage and lead companies in digital, communications, and marketing areas. It also offers the possibility of studying abroad for an academic year at one of the European universities with which IQS has agreements in place – Northumbria University (United Kingdom), Jönköping Business School (Sweden), Pforzheim University (Germany), or Rennes School of Business (France) – to earn a dual international degree.

- **Bachelor's Degree in International Business.** This programme prepares students to take on leadership and management roles in global environments, as well as to lead and manage companies in digital, communications, and marketing areas. With a fully international experience, this bilingual programme offers the possibility of earning a triple degree if students choose the option of studying for a full year at Sheffield Hallam University (United Kingdom) and another full academic year at the IÉSEG School of Management (France).

- **Bachelor's Degree in Tourism and Hospitality Management.** This programme trains future leaders in the tourism sector, preparing them to manage tourism, hospitality, events, and leisure businesses. At the same time, it combines the skills required to manage businesses with the hospitality-related skills needed to provide customers with excellent service.

DUAL BACHELOR'S DEGREE PROGRAMMES

The possibility of a **Dual Bachelor's Degree** between any of the Bachelor's Degrees in **Chemistry and Chemical Engineering, Industrial Engineering, or Biotechnology** and the **Bachelor's Degree in Business Administration and Management** provides multidisciplinary training in which a solid scientific and technical foundation is combined with the knowledge of the different areas of business management. Moreover, students also have the option of earning the Dual Bachelor's Degree in Chemistry and Chemical Engineering as well as the Dual Bachelor's Degree in Tourism and Hospitality Management and Marketing.

MASTER'S DEGREE PROGRAMMES

- **Master's Degree in Analytical Chemistry.** This programme prepares professionals and researchers with a profile applied to research and to product, process, and service development in different sectors related to analytical chemistry.

- **Master's Degree in Pharmaceutical Chemistry.** Taught completely in English, this programme provides the knowledge for future professionals in the research and development of products, processes, and services in different sectors connected to pharmaceutical chemistry.

- **Master's Degree in Materials Science and Engineering.** This programme trains future professionals in the research and development of products, processes, and services in industrial sectors related to chemistry, particularly in the area of materials science.

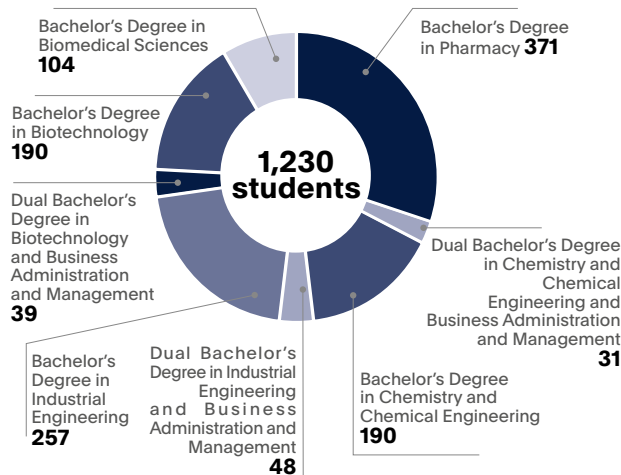
- **Master's Degree in Chemical Engineering.** Taught entirely in English, this programme provides knowledge for the design, management, and control of the chemical and biotechnological production processes used in industrial process plants.

- **Master's Degree in Bioengineering.** Taught completely in English, this programme trains future professionals in high-level research and innovation in different biotechnological, food, and biomedical production sectors.

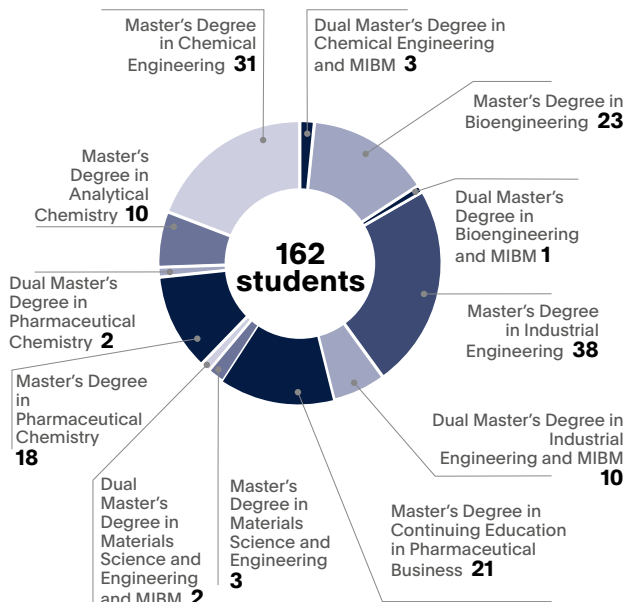
- **Master's Degree in Industrial Engineering.** This programme prepares professionals with skills society requires from the industrial engineering profession based on legislative regulation.

STUDENT STATISTICS IQS SCHOOL OF ENGINEERING

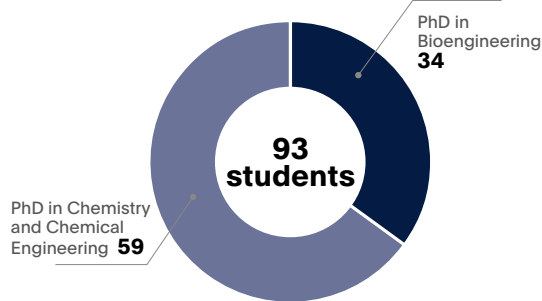
Bachelor's Degrees and Dual Bachelor's Degrees



Master's and Dual Master's Degrees



Doctoral Programmes

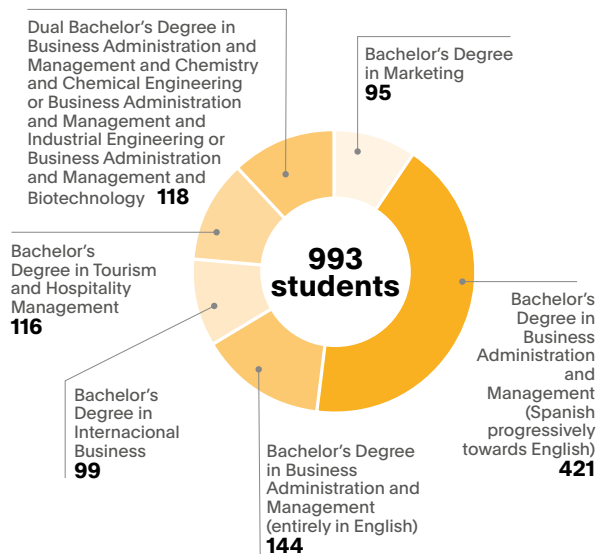


TOTAL
IQS SCHOOL OF
ENGINEERING

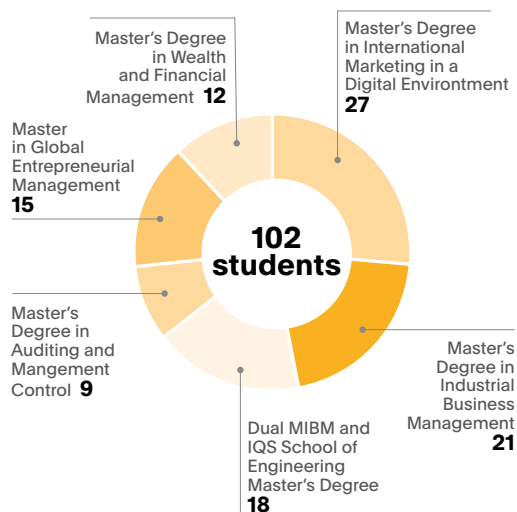
1,485 STUDENTS

STUDENT STATISTICS IQS SCHOOL OF MANAGEMENT

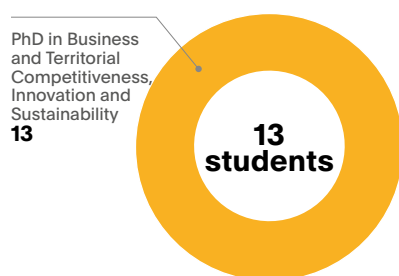
Bachelor's Degrees and Dual Bachelor's Degrees



Master's and Dual Master's Degrees



Doctoral Programmes



TOTAL
IQS SCHOOL OF
MANAGEMENT

1,108 STUDENTS

- **Master's Degree in Biopharmaceutical Business.** Taught entirely in English, this programme trains professionals who wish to develop their potential with companies in the pharmaceutical, biotechnology, or medical technology sectors by providing them with a multidisciplinary vision that enables them to take on qualified management tasks in the different areas that make up these sectors.
- **Master in Global Entrepreneurial Management.** Taught entirely in English, this programme offers an international experience with practical training in global markets as it is jointly carried out by IQS, Fu Jen University (Taiwan), and Loyola Marymount University (USA) and has been recognized by the Government of Catalonia with the Distinguished International Master's Programme Mention (IMP). This master's degree has been selected by the Financial Times as one of the best masters in management programmes worldwide.
- **Master's Degree in Industrial Business Management.** Taught entirely in English, this programme provides additional training to eligible graduates from technical and scientific backgrounds and allows them to take on positions of responsibility in business management and administration.
- **Master's Degree in International Marketing in a Digital Environment.** Taught entirely in English, this programme provides the skills needed to successfully attain a professional career in the area of marketing and sales.
- **Master's Degree in Auditing and Management Control.** This programme offers advanced training in the field of auditing – allowing students to gain partial accreditation for the theoretical tests for access to the ROAC (Official Registry of Account Auditors) – and in the financial management of companies. It offers the possibility of specializing in management control/financial management or business accounting.
- **Master's Degree in Wealth and Financial Management.** This programme offers specialized advanced technical training aimed at obtaining positions in private banking, wealth management, corporate finance, and in areas related to financial markets in general. The programme is accredited by the CNMV (National Securities Market Commission) for functions established by the European MiFID II Directive (Markets in Financial Instruments Directive) and is a member of the University Affiliation Program (UAP) of the Chartered Financial Analyst (CFA) Institute.

DUAL MASTER'S DEGREE PROGRAMMES

The Dual Master's Degree option allows students to combine any of the six master's degrees offered by the IQS School of Engineering (Master's Degree in Analytical Chemistry, Master's Degree in Pharmaceutical Chemistry, Master's Degree in Materials Science and Engineering, Master's Degree in Chemical Engineering, Master's Degree in Bioengineering, and Master's Degree in Industrial Engineering) and the Master's Degree in Industrial Business Management. This opportunity provides students with multidisciplinary education in which scientific and technological specialization are combined with the knowledge and skills necessary

to take on management and leadership roles in the various functional areas of a company. The Dual Master's Degrees have also been expanded with the possibility of pursuing the Master's Degree in Industrial Engineering jointly with the Master's Degree in Materials Science and Engineering and with the option of pursuing the Master's Degree in Industrial Engineering together with the Master's Degree in Chemical Engineering.

DOCTORAL PROGRAMMES

- **PhD in Chemistry and Chemical Engineering.** This programme trains doctoral researchers specialized in the most modern fields of Chemistry, Chemical Engineering, and Industrial Engineering who are capable of contributing to improving competitiveness and innovation in their industries. This doctoral programme has earned a Mention towards Excellence (Spanish Official State Gazette of 6 October 2011 from the General Secretary of Universities under the Ministry of Education).
- **PhD in Bioengineering.** This programme trains doctoral researchers capable of conducting advanced research in the areas of Bioengineering and Biotechnology who are able to join biotechnology companies as highly qualified professionals.

- **PhD in Business and Territorial Competitiveness, Innovation and Sustainability.** This programme trains professionals in economic and business research who are capable of joining companies that have an inherent need for research and innovation. It is taught jointly with the Universidad de Deusto and the Universidad Pontificia Comillas, ICADE.

SCHOLARSHIPS AND GRANTS

IQS awards scholarships and grants based on academic excellence and financial need criteria. Focusing on the academic excellence criteria, students with excellent academic transcripts can benefit from a 50% reduction to tuition fees for undergraduate studies. During academic year 2023-2024, scholarships and grants were awarded to students with excellent transcripts both in the IQS School of Engineering and the IQS School of Management. Based on financial need, students can apply for IQS scholarships and grants for the full or partial amount of tuition fees based on the economic status of the student's household family.

TOTAL AMOUNT FOR
SCHOLARSHIPS AND
GRANTS AWARDED
IN ACADEMIC YEAR
2023-2024

€2,739,665





Social commitment

3

IQS channels all activities related to the ethical and human dimension of individuals through the Identity and Mission Committee.

Designed as a **meeting** space, the Identity and Mission Committee aims to **offer knowledge about the Christian faith, provide opportunities for volunteer activities, promote a culture of vocation, and keep the school's Christian and Jesuit identity alive.** All these activities are carried out in coordination with the intellectual, social, and pastoral work of the Spanish Province of the Society of Jesus, the UNIJES (Jesuit University Centres of Spain), the Ethics Chair of Ramon Llull University, the Borja Bioethics Institute, the International Association of Jesuit Business Schools (IAJBS), the Eastern Apostolic Territorial Platform of the Society of Jesus, the Jesuit Education Foundation, and EDUCSI (the education sector of the Spanish Province of the Society of Jesus).

ACTIVITIES

/ Promoting a culture of vocation and keeping the school's Christian and Jesuit identity alive:

- Holding weekly Eucharists, Christmas Mass, and Ash Wednesday.
- Prayer for Peace (23 October 2023).
- Creation of the Bible study group for professors and staff. Monthly meetings.
- Contemplative Walk through Collserola (13 April 2024).
- Ignatian bike route Verdú – Manresa (4 May 2024).
- Meetings with the IQS MAGIS Group in coordination with the Spanish MAGIS office.

/ Organization of workshops and events aimed at IQS students and faculty:

- Participation in the welcome events for bachelor's and master's degree students, with training on the history and Ignatian values of IQS.
- "IQS Post-meal chats": a shared reflection on professional vocation within the framework of a dialogue between students and an IQS professor or staff member.
 - Post-meal chat with Dr Oriol Pou Eibar (30 November 2023).
 - Post-meal chat with Dr Mónica Martínez Blasco (25 April 2024).
- Identity and Mission Intro Course (26 October 2023) for new professors and staff members at the Holy Cave Sanctuary in Manresa.
- Celebration of the "IQS Community," involving several training sessions with topics related to the IQS identity and mission:
 - "Artificial Intelligence and Spirituality" (29 September 2023).

- "The challenges of the Society of Jesus today in Catalonia" with Pau Vidal, SJ, Jesuit Representative in Catalonia (15 December 2023).
- "Our students: lacking vocation and purpose?" with four guest students (2 February 2024).
- "The Hebrew Bible and Women" with Dr Lidia Rodríguez Fernández, professor at DEUSTO (12 April 2024).
- 25th IQS Symposium: Money, Housing, and Work for a Dignified Life. The limits of the market (9 January 2024).
- "Rebuilding the currency for a just and sustainable future." Led by Dr Ester Barinaga.
- "Transforming from within the workplace: Organizing solidarity to avoid degeneration," led by Dr Paola Raffaelli.
- "Trapped: The experience of women who are subletting or squatters," led by Dr Ignasi Martí.
- Emergency Talk "The Situation of the Central American University of Nicaragua (UCA)" with the participation of Dr Ederne Larracochea, professor at the University of Girona (10 November 2023).
- Promoting rigorous research and analysis, within the framework of the subjects taught in the different IQS academic programmes.

- Ongoing seminar on Technoethics, aimed at university professors specializing in technology-related subjects and professionals from technology companies (February-June 2024).

/ Social volunteering activities:

- Coordination of IQS corporate volunteering for the Assisi Centre, with participation by IQS faculty and staff.
- Participation by IQS students as volunteers for the La Vinya Foundation, the Migrastudium Foundation, the Cabestany Centre with the Solidarity Service Foundation, and the Rossinyol Programme for mentoring children.

/ Promotion of charitable campaigns such as:

- Participation in the food drive for the Food Bank, supporting the Assisi Centre (22-24 November 2023).
- Participation in the TV3 Marathon with a charitable breakfast (13-15 December 2023).
- Food donation to the Assisi Centre (March 2024).
- "URL-IQS Mental Health Conference" (4 March 2024).
- Montserrat-Manresa pilgrimage (22-23 March 2024).



/ Service Learning:



IQS is implementing the Service-Learning methodology, gradually and throughout the different subjects taught at the school, making it possible to integrate the knowledge taught in the subjects with service towards the community.

Volunteer service-learning projects simultaneously encompass academic learning, the development of “know-how,” training in values, and active citizen participation within the framework of a charitable concept founded on the respectful and reciprocal engagement of all involved. This service-learning model forms part of the desire to use pedagogical methodologies that promote cooperation and solidarity and can contribute to education in the future.

During academic year 2023-24, the activities carried out within the service-learning framework have included:

- Regular offering of training sessions to all IQS employees on what the service-learning methodology entails and how it can be implemented, along with providing updated information on the project's activities.
- Contact with entities in order to jointly launch work in the field of service-learning. At present, IQS maintains contact with 16 social sector entities within social and environmental sectors of various kinds.

- Service-learning experiences carried out within the framework of the different IQS studies (in which 220 students have been involved).

- Organization by IQS alongside other universities in the UNIJES network of an online training course on the implementation of the service-learning methodology.
- Participation in the **7th ECSLHE Transforming Europe through University Collaboration Conference**, presenting the paper “Bridging Academia over Poverty: a Data Science Service-Learning Initiative,” by María Alejandra Beltrán Benagos, Francesc Martori, Juan Albacete-Maza, and Núria Agulló Chaler.
- Participation in the **12th National and 6th International Conference on University Service-Learning**, presenting the paper “Critical Review of University Service-Learning Experiences in Science, Engineering, and Pharmacy,” by Maria Alejandra Beltran Benagos, Jordi Cuadros Margarit, Oriol Quintana Rubio, and Núria Agulló Chaler.
- IQS service-learning has joined the ApS(U)CAT network, which is the service-learning network of Catalan universities established in July 2015. Its mission is to promote, implement, evaluate, and institutionalize service-learning at the university level. The network is made up of academic and management staff from the 12 Catalan universities and open to participation by service-learning entities and students. ApS(U)CAT also collaborates with the Spanish Service-Learning University Network, organizing national and international conferences periodically.

Opportunity	Entity	Studies	Method
Energy efficiency study	Assisi Welcome Centre	Master's Degree in Industrial Engineering	Course
Marketing plan	Duchenne Parent Project	Bachelor's Degree in Marketing	Final Degree Project
Marketing plan	Goodkarma Projects	Master's Degree in International Marketing	Master Thesis
Strategic plan	Assisi Welcome Centre	EMBA	Master Thesis
Strategic plan	AFANOC Association	EMBA	Master Thesis
Data processing	Assisi Welcome Centre	Bachelor's Degree in Business Administration and Management	Course
School construction	Daniella Child Care and Learning Center	IQS School of Engineering Bachelor's Degrees	Course
Promoting social impact	AFA Vallès	IQS School of Engineering Bachelor's Degrees	Course
3D Printing	Claretian Sisters	Bachelor's Degree in Industrial Engineering	Course
Language pairs	MIGRASTUDIUM	Bachelor's Degree in Business Administration and Management	Course
Innovation consulting for a social entity	Claretian Sisters	Bachelor's Degree in Tourism and Hospitality Management	Course



Sustainability at IQS

4

As part of the institution's commitment to sustainability, IQS takes part in various initiatives focused on sustainable development, taking an active role regarding environmental and social impacts on the world in which we live.

As a member of Ramon Llull University (URL), IQS has made a commitment to meeting the Sustainable Development Goals (SDGs). Among them, IQS has established a focus on Goal 13, "Climate Action," and is dedicated to reducing greenhouse gas (GHG) emissions. In particular, IQS contributes through the URL Decarbonization Working Group with measures for the progressive reduction of emissions at the school. IQS has a long history of dedication to environmental issues which is evidenced by the existence of the Environmental Process Engineering and Simulation Group (GESPA), formed by a multidisciplinary team that combines chemical engineering, biotechnology, and chemical analysis with a theoretical-experimental approach to advancing sustainability for our society.

Along the same lines, it is worth highlighting the existence of the Environmental Analysis Laboratory – accredited by ENAC according to the UNE EN ISO 17025 standard – specialized in the analysis of persistent organic pollutants in environmental matrices and in products for human and animal food, as well as the Sustainability, Economics and Ethics group, home to researchers who collaborate at the intersection of issues related to sustainability, poverty, inequality, education, social exclusion, and the environment.

Finally, the Materials Engineering Group (GEMAT) investigates the monitoring and environmental impact of microplastics on the environment and the development of new families of biodegradable polymers.

Additionally, during academic year 2023-24, the "IQS Sustainability" Working Group was established as a multidisciplinary group that establishes objectives, priorities, and actions from all areas within the school that contribute to sustainable development: infrastructure, educational plans, research and technology transfer, collaborative projects, and student life.

In view of this background, since July 2024 IQS has taken on the leadership of the new UNIJES Reference Research Centre in Ecology and the Environment. This centre aims to respond to one of the Universal Apostolic Preferences (PAU) of the Society of Jesus, Caring for our Common Home, from the perspective of research, technology transfer, training, and social awareness.

SUSTAINABILITY AND ENVIRONMENTAL IMPACT

With the purpose of fighting climate change and continuing to work towards a more sustainable world, as a member of the URL, IQS contributes to the commitment to achieve the following objectives:

- Achieving carbon neutrality by 2045, with compensation for non-reducible greenhouse gas (GHG) emissions (A1, A2, and A3).
- Reducing GHG emissions 75% by 2030 compared to 2019 emissions (A1 and A2).
- Reducing indirect emissions associated with mobility 33% by 2030 compared to 2019 emissions (A3).

The main actions that IQS has carried out to promote the reduction of emissions include:

- Installing solar panels: During academic year 2023-24, all 240 solar panels became fully operational, covering an area of 620m². These solar panels represented an investment of €98,000 in the previous year.
- Changing from conventional lights to LED lighting: 90% of campus facilities now have LED lighting.

Aspects related to energy consumption, water consumption, and waste at IQS are detailed as follows.

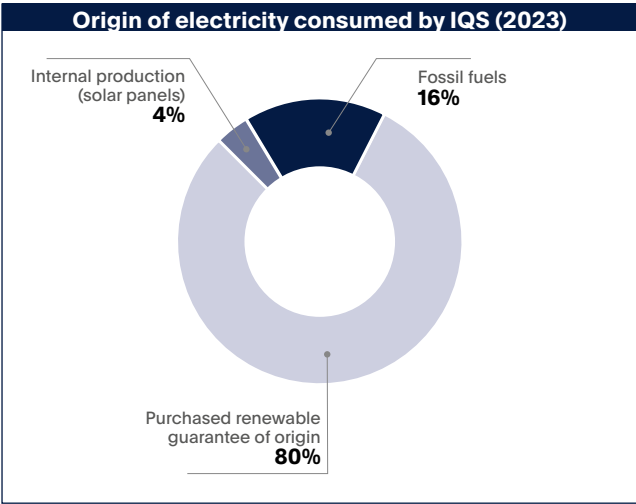
/ Energy consumption

Energy consumption at IQS is largely connected to the activity of both teaching and research laboratories, with highly specialized equipment that operates intensively throughout the year, as well as the teaching activity in the buildings that host IQS classrooms for students.

In 2023, IQS recorded total energy consumption of: **2,537,399 kWh**, from:

- Fossil fuels (natural gas): **393,767 kWh**
- Electricity purchased with Designation of Origin (all of which has been verified with the "Renewable Certificate of Origin"): **2,037,662 kWh/year**
- Internally-generated electricity (solar panels): **105,970 kWh**

Adding up the origins detailed in points 1 and 2, we recorded that 84% of the energy consumed at IQS in 2023 was of renewable origin.



The GHG emissions generated by IQS in 2023 were:

Scope 1	Fossil fuels	71.72 tonnes eCO ₂
	Fugitive emitions	25.01 tonnes eCO ₂
	TOTAL	96.73 tonnes eCO₂
Scope 2	Non-renewable origin electricity	0 tonnes eCO ₂
Scope 3 (partial)*	Purchase of goods	674.89 tonnes eCO ₂

Note :
 Scope 1 (A1): Emissions derived from the combustion of natural gas from the heating circuit and fluorinated gases from air conditioning equipment.
 Scope 2 (A2): Emissions associated with energy purchases.
 Scope 3 (A3): Emissions associated with mobility, product or service purchases, etc.
 * Other A3 categories are pending calculation and will be indicated in the future.

/ Water:

Water consumption at IQS is connected to laboratory and research activities, as well as water use in the buildings that IQS students use.
 Total consumption in 2023: **17,285 m³**

/ Waste:

IQS has hired a company (FCC Ámbito) to properly handle, collect, and manage laboratory waste, along with paper and cardboard.

SUSTAINABILITY, EQUALITY, AND SOCIAL IMPACT

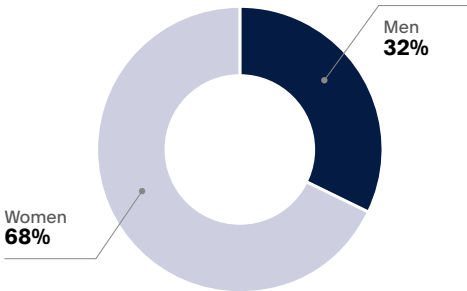
Within the Social aspects of Sustainability, as a university centre, IQS actively contributes to training professionals who contribute a diversity of experiences, backgrounds, skills, and characteristics, which is essential for Sustainable Development.

In particular, IQS educates professionals in areas that historically have a gender gap, such as health sciences with historical proportions mostly of women, or Science, Technology, Engineering, and Mathematics (STEM) and Business Management, with proportions historically dominated by men.

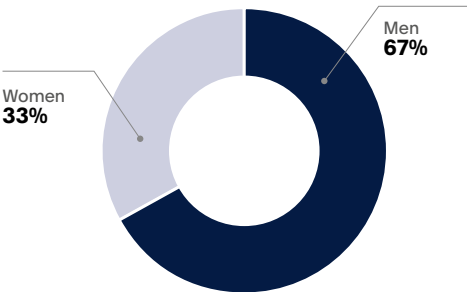
During academic year 2023-34, IQS was home to a total of 1,230 undergraduate students at the School of Engineering (32% female in Technical Studies and 68% in Health Sciences) and 993 undergraduate students at the School of Management (37% female). With regard to new first-year students, only slight variations in these percentages have been observed. These data do not take into account students who are doing a dual degree.

At the same time, it should also be noted that IQS boasts a strong social commitment (volunteering activities for students and employees, donations of school supplies, and more) that has a positive impact on the community. For more details, see section 3 of this annual report.

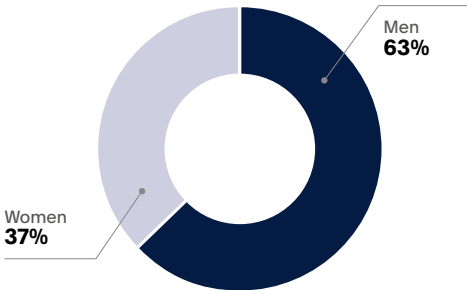
Total Students in Healthcare Bachelor's Degrees



Total Students in Technical Bachelor's Degrees



Total Students in Bachelor's Degrees





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d'Atenció a
l'Estudiant

IQS Student Life

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During academic year 2023-24, IQS Student Life took on the organization of the 24th edition of the UNIJES Sports Day, supported student committees and activities, and handled the management of the new Student Support Office that was launched at the end of the year.

IQS Student Life projects and activities are structured across different dimensions that complement each other.

STUDENT PARTICIPATION

The university time period has an important social component for young people studying at IQS. As a complement to academic activity in the classroom, students are also accompanied through initiatives that aim to strengthen the bonds between them and IQS. To achieve this goal, IQS Student Life organizes the following actions:

- Association Representatives: meetings with the heads of committees and clubs to receive proposals for activities.
- Student Committees: the committees that have been active throughout the year have included the Sports Club, Book Club, Debate Club (speech), E-Club (entrepreneurship), and Green Fridays (sustainability) committees.
- UNIJES Sports Day: on 15 March 2024, IQS hosted the 24th edition of this tournament that brings together the universities that form part of the Society of Jesus throughout Spain. The tournament was held at CEM L'Hospitalet Nord, and featured participation by students from the Pontifical University of Comillas, the University of Deusto, ESADE, the Loyola University of Andalusia, SAFA, and IQS.

The sports competitions that were held included 7-a-side football (men), indoor football (women and men), volleyball (women, men, and mixed), basketball (women and men), paddle tennis (women and men), and tennis (women and men). With a total of 359 student-athletes and 12 referees, as well as 20 people responsible for organizing the event and representatives from the universities, the activity was a great success.

In addition, the event enabled us to give visibility to social projects that promote social inclusion. In this regard, it is worth highlighting the collaboration of referees from the Migra Studium Foundation and the meals provided by the Cassià Just – Cuina Justa Foundation.

Participating in sports activities, both at the UNIJES Sports Day and the IQS Sports Day held on 6 March, represents an opportunity for young people to spend time together, encourage healthy habits, and offer a feeling of belonging.

ACTIONS

Student Life coordinates activities related to welcoming students and completing their studies at IQS.

These actions include:

- Beginning of bachelor's and master's degree studies: these activities involve a diverse series of actions designed to facilitate the integration of students into IQS. They include the institutional and academic welcome, sessions with students who talk about their time at IQS, group meeting and cohesion activities, providing materials, presenting the identity and mission as well as the activities promoted by IQS, and a session providing tools to help students have successful academic performance.
- Graduation Ceremonies: for both bachelor's and master's degree ceremonies, Student Life is responsible for informing students about how the events will unfold (sequence of the event, reading student speeches, etc.) and making registrations for students and their friends and family members.

STUDENT SUPPORT OFFICE

Academic year 2023-24 made it possible to complete the process of creating the Student Support Office (OAE). Inaugurated in July, the OAE is the main point of contact with students to offer advice, information, and solutions to their questions and issues. The OAE provides services to students throughout the day through face-to-face, telephone, and online attention.

In this way, the OAE manages to put students at the centre and, at the same time, it acts as a node that interacts with different IQS departments to help address any situations students may bring up. The ICT service also occupies a central space within the OAE, as it has shifted IT services for students to this office. The OAE also provides legal advice to international students who must carry out procedures (municipal registration of inhabitants, getting Spanish Foreign Resident Identification numbers, renewing student visas, or opening a bank account, among others) and offers unique support to first-year bachelor's degree students who come from other countries (Mentorship Programme) to ensure solid integration within IQS.



International Projection

6

ARGENTINA

- Universidad Argentina de la Empresa
- Universidad Católica de Córdoba

BOLIVIA

- Universidad Católica Boliviana "San Pablo"
- Universidad Privada de Santa Cruz de la Sierra
- Universidad Privada Boliviana

BRAZIL

- INSPER
- Pontificia Universidade Católica do Paraná
- Unisinos

CANADA

- ESG UQAM
- University of Guelph-Humber
- Toronto Metropolitan University

COLOMBIA

- Pontificia Universidad Javeriana, Cali
- Universidad del Rosario
- Universidad de La Sabana
- Universidad Autónoma de Bucaramanga

MEXICO

- Instituto Tecnológico y de Estudios Superiores de Monterrey
- Instituto Tecnológico y de Estudios Superiores de Occidente
- Universidad Anáhuac Querétaro
- Universidad Iberoamericana Ciudad de México
- Universidad Iberoamericana Torreón
- Universidad Iberoamericana León
- Universidad Iberoamericana Puebla
- Universidad de Monterrey

PANAMA

- Aden University

PERU

- Universidad Antonio Ruiz de Montoya
- Universidad de Lima

UNITED STATES

- Canisius College
- Elon University
- Fairfield University
- Farmingdale State College
- Florida Atlantic University
- Florida International University
- Gonzaga University
- Johnson & Wales University
- Le Moyne College
- Loyola Marymount University
- Loyola University Chicago
- Marquette University
- Massachusetts Institute of Technology (MIT)
- Northeastern University
- Nova South Eastern University
- Ohio University
- Pennsylvania State University
- Saint Joseph's University
- University of Central Florida
- University of San Diego
- University of San Francisco
- Valdosta State University
- Xavier University

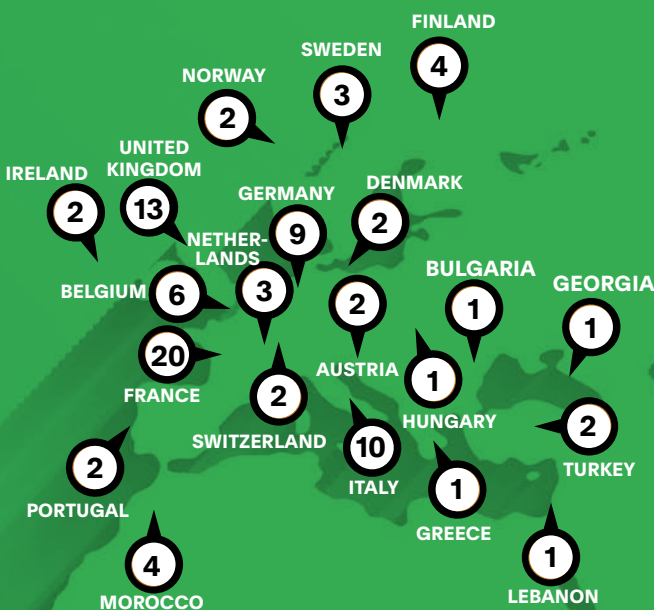
URUGUAY

- Universidad Católica del Uruguay
- Universidad ORT Uruguay

IQS fully participates in the internationalization of science, technology, and management and believes that greater international connections increase the quality of studies, research, and perspectives for students and professors at the school.

ACADEMIC EXCHANGES

IQS student and researcher exchanges with foreign universities are an ideal way of complementing the studies with an experience that enriches them both academically and personally. The exchanges take place in prestigious foreign universities with which IQS has exchange agreements. In particular, during academic year 2023-24, IQS has exchange agreements in place with 170 universities: 85 from Europe, 34 from North America, 16 from South America, 1 from Central America, 30 from Asia, and 4 from Africa. Throughout the exchange application process, the IQS Student Life office supports and guides students and researchers who wish to pursue part of their studies or research projects abroad.



EVOLUTION OF "INCOMING" STUDENTS (from foreign universities coming to IQS)

2020-21	81
2021-22	340
2022-23	295
2023-24	446

EVOLUTION OF "OUTGOING" STUDENTS (from IQS to foreign universities)

2020-21	133
2021-22	228
2022-23	190
2023-24	192



AUSTRIA

- MCI Management Center Innsbruck
- Modul University Vienna

BELGIUM

- Ghent University
- ICHEC Brussels Management School
- KU Leuven
- Thomas More University of Applied Sciences
- Universiteit Antwerp
- Université de Namur

BULGARIA

- University of Ruse – Angel Kanchev

CHINA

- Lingnan University, Hong Kong
- International Business School Suzhou XJTLU
- The Hong Kong Polytechnic University

DENMARK

- Aarhus University
- University of Southern Denmark

FINLAND

- JAMK University of Applied Sciences
- LAB University of Applied Sciences
- Oulu Business School
- University of Eastern Finland

FRANCE

- CPE Lyon
- École nationale supérieure de Chimie de Montpellier
- ESCOM
- ESSEC Business School
- Excelia Group – La Rochelle
- Grenoble École de Management
- Groupe ESSCA

- Groupe ESC Clermont
- IESEG School of Management (Université Catholique de Lille)
- ICAM
- INSA Toulouse
- Institut Paul Bocuse
- Institut Polytechnique de Grenoble
- IPAG Business School
- KEDGE Business School
- JUNIA-HEI
- NEOMA Business School
- Paris School of Business
- Rennes School of Business
- Université de Lille

GEORGIA

- Caucasus University

GERMANY

- Hochschule Fresenius
- Hochschule Offenburg
- International School of Management
- Technische Universität München
- Technische Hochschule Ingolstadt
- Münster School of Business and Economics
- O.T.H Regensburg
- Pforzheim University
- University of Münster

GREECE

- Aristotle University of Thessaloniki

HUNGARY

- Kodolányi János University of Applied Sciences

INDIA

- Indian Institute of Management – Bodh Gaya
- ISBR Business School
- Jindal Global Business School
- Xavier Institute of Management Bhubaneswar

- Reva University – Reva Institute of Technology and Management
- Gitam University – Gitam Institute of Management (VISAKHAPATNAM)
- Loyola Institute of Business Administration
- Presidency University
- Vel Tech Institute of Science and Technology – School of Management
- Christ University

INDONESIA

- IPMI International Business School
- Udayana University - GoBali
- Universitas Gadjah Mada

IRELAND

- Technological University Dublin
- University of Limerick

ITALY

- Ca' Foscari University of Venice
- Politecnico di Milano
- Università Cattolica del Sacro Cuore
- Università degli Studi di Padova
- Università degli Studi di Parma
- Università degli Studi di Sassari
- Università della Calabria
- Università di Bologna
- Università degli Studi di Napoli: Federico II
- Università degli Studi di Perugia

JAPAN

- Japan University of Economics
- Nagoya University of Commerce and Business

KAZAKHSTAN

- Almaty Management University

LEBANON

- Université Saint Joseph de Beyrouth – Faculty of Business Administration and Management

MALAYSIA

- Taylor's University

MOROCCO

- ISCAE
- École Nationale de Commerce et de Gestion (ENCG)
- HEM Business School
- Rabat Business School – UIR

NETHERLANDS

- Breda University of Applied Sciences
- ZUYD University of Applied Sciences – (Hotel Management School of Maastricht)
- University of Groningen

NORWAY

- Norwegian University of Science & Technology
- University of Stavanger

PHILIPPINES

- Ateneo de Manila University

PORTUGAL

- Universidade Lusofona
- ISCTE – Instituto Universitário de Lisboa

RUSSIA

- Plekhanov Russian University of Economics

SOUTH KOREA

- Chung-Ang University
- Sogang University
- SolBridge International School of Business

SWEDEN

- Chalmers University of Technology
- Jönköping International Business School
- Umea School of Business, Economics and Statistics (USBE)

SWITZERLAND

- ZHAW School of Management and Law
- Lucerne University of Applied Sciences and Arts

THAILAND

- Rajamangala. University of Technology Krungthep.

TAIWAN

- Fu Jen Catholic University

TURKEY

- Sabanci University – School of Management
- Istanbul University – School of Business

UNITED ARAB EMIRATES

- Ajman University

UNITED KINGDOM

- Cardiff Business School
- Cardiff University
- Imperial College London
- Leeds Beckett University
- Newcastle Business School (Norumbria University)
- Oxford Brookes University – School of Hospitality Management
- Portsmouth Business School
- Sheffield Hallam University
- The University of West London
- University College Birmingham
- University of Strathclyde
- University of Manchester
- University of Worcester



Technology Transfer

IQS provides solutions for industry's needs by building on the basis of scientific and technological knowledge, using the most advanced techniques and offering the highest quality in the services it provides.

TECHNOLOGY AND KNOWLEDGE TRANSFER ACTIVITY INDICATORS

Main areas of activity: medical, pharmaceutical, and cosmetics sectors, environmental protection, food sector, chemical industry, quality control, materials, biotechnology sector, energy, packaging, and industrial processes.

Technical services

Number of services: 1,319

Revenue: €1,093,437 Number of clients: 136

Research contracts

Number of contracts: 59

Revenue: €982,886 Number of clients: 51

Competitive projects in progress

Number of projects: 118

Revenue: €2,660,832

Patents

Number of patents applied for: 4

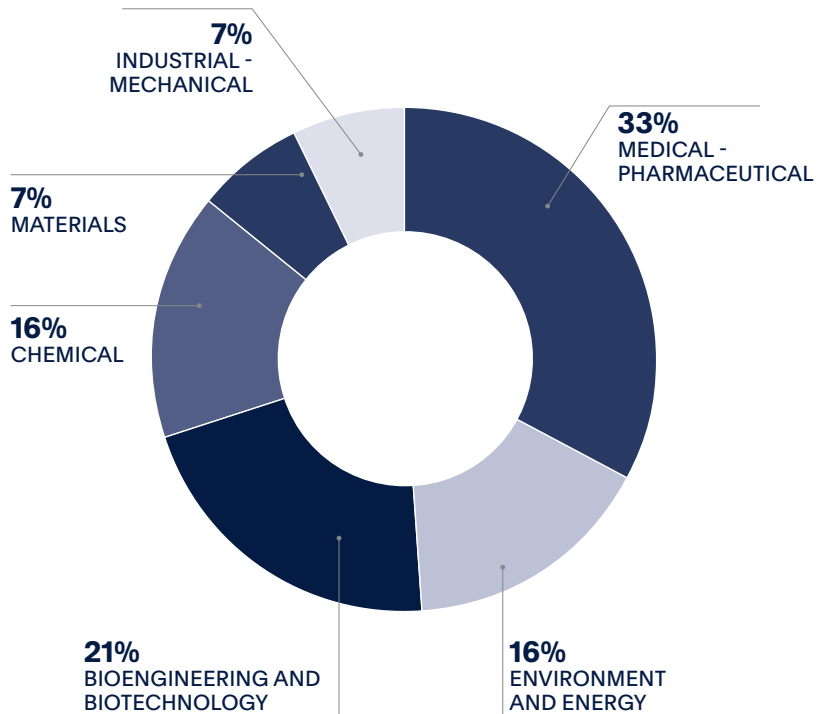
IQS Tech Transfer provides technical services, R&D&i projects, and consulting to industries, companies, and government. The collaborations with these parties are based on contributing our knowledge to solve specific, real world problems which arise during innovation in procedures and technologies.

CERTIFICATES AND ACCREDITATIONS

- AENOR certification according to the UNE-EN ISO 9001:2015 standard for R&D&i Services and analytical studies (ER-0992/2000).
- ENAC accreditation according to the UNE-EN ISO/IEC 17025 standard for conducting Tests in the Environmental Sector (196/LE344).
- ENAC accreditation according to the UNE-EN ISO/IEC 17025 standard for conducting Chemical Tests for Traces of Persistent Organic Contaminants (dioxins and similar) in agri-food products (196/LE958).
- Accreditation for the analysis of dioxins and furans in atmospheric emissions and characterization of waste, by the Accreditation Office of the Department of Territory and Sustainability of the Government of Catalonia.
- Certification by the Spanish Agency for Medicines and Medical Devices as a pharmaceutical laboratory to conduct quality control activities according to GMP (Certificate No. ES/120HVI/17).
- The research groups at IQS boast recognition from AGAUR as consolidated or emerging groups.
- IQS has received TECNIO accreditation through IQS TECH TRANSFER in the technology developer category. TECNIO is the seal awarded by the Government of Catalonia through ACCIÓ to identify the points where the most innovative technology is found and the suppliers that offer it.
- Certificate of compliance with the Good Manufacturing Standards for Medicines of the Government of Catalonia. Department of Health (NCF/1945/001).

SERVICES TO COMPANIES

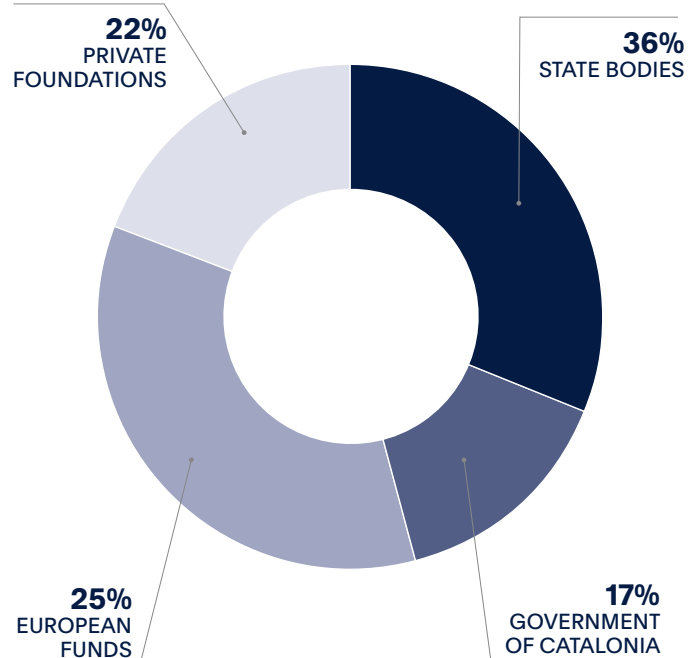
Main areas of activity



ENTITIES PROMOTING PROJECTS AND RESEARCH COMPETITIONS



RESEARCH FUNDING WITH COMPETITIVE FUNDS



ENTITY CERTIFICATIONS



NETWORK OF RESEARCH GROUPS





IQS Tech Factory

8

IQS Tech Factory, the centre of entrepreneurial activity at IQS, aims to promote an entrepreneurial spirit of new business projects, especially those arising within the IQS community, for students, alumni, professors, and staff alike.

During academic year 2023-2024, IQS Tech Factory has consolidated its activity focused on contributing values and tools to the IQS community so that the legacy of more than 110 years of IQS entrepreneurial culture can continue to reinforce this spirit.

IQS TECH FACTORY, with an eye on the IQS community

IQS TECH FACTORY is the IQS unit that brings together entrepreneurship and innovation with the aim of fostering entrepreneurship and providing initiatives with the necessary tools to carry them out. IQS TECH FACTORY boasts the more than 20,000 people who form part of the IQS community – students, alumni, professors, and staff – and their associates as potential users, turning their concerns into transformative and competitive business projects. The activity at IQS TECH FACTORY is based on five interrelated strategic pillars: **inspiration** through events, presentations, and training capsules; **training** with the creation of the Entrepreneurship Faculty and encouraging classroom activities to focus on continuity with the entrepreneurial development of students; the **incubation** of business ideas with a specific programme such as the IQS TECH FACTORY Startup Challenge; and **acceleration** with strategic agreements with different partners in the ecosystem. IQS Tech Factory does all this with specialized **mentoring** using IQS's own methodology in order to accompany entrepreneurial initiatives in their initial steps.

During academic year 2023-2024, IQS TECH FACTORY assisted 41 entrepreneurial initiatives, reaching a total of 182 since its inception in 2015.

12 entrepreneurial projects awarded at the URL Innovation Fest 2024

On 13 June, the first edition of the **URL Innovation Fest 2024** took place. This project has been conceptualized by IQS and is making it possible to establish a working group within the Vice-Rectorate for Research of the URL with all the institutions of the URL represented. 12 entrepreneurship and innovation projects have been awarded in this first edition, including startups, business projects, and research projects.

Sustainability and social initiatives have been the backbone of most of the projects awarded at this gala, held at PIER01 BARCELONATECH, in an event that featured the presence of Xantal Llavina as master of ceremonies, a presentation by the entrepreneur Carlos Llibre, founder of All1, and a networking session in which the nearly 200 participants were able to establish ties and explore new ways of collaboration.

Two IQS initiatives, NEXTRREEF ECOSYSTEMS, by Dr Marco Antonio Pérez and Dr Albert Forés with the Advanced Manufacturing Group (GAM), and CAMALEONIC analysts, by IQS Alumni Oriol Esteban and Gerard Esteban, were awarded the “Best Environmental Innovation Project” and “Best Disruptive Solution in AI” prizes.

“Brava!” exposes the contrasts of the Mediterranean and proposes solutions

Among the activities organized by IQS TECH FACTORY, the organization of “Brava! Eyes on the Mediterranean” held on 13 March at the Old Estrella Damm Factory stands out. The event featured different roundtables, pitches, and exhibitions under the theme of analysing the problems facing the Mediterranean and proposing innovative solutions with a social and environmental impact that could represent a way of solving the problems identified.

4YFN 2024, IQS TECH FACTORY has reconfirmed its commitment to innovation

From 26 to 29 February, IQS participated in the tenth edition of 4YFN, the leading international event in the entrepreneurial ecosystem, led by IQS Tech Factory and the IQS e-Club, along with eleven proposals from the school.

The participation of IQS TECH FACTORY in 4YFN made it possible to offer a space for initiatives by the IQS community and reinforced its role as a reference within the ecosystem with a leading international event in the entrepreneurship ecosystem within the framework of the MWC. The scope of 4YFN can be visualized by the fact that, in this tenth edition of the event, more than 900 institutions from 170 countries around the world participated with their own stand.

By participating in 4YFN, IQS TECH FACTORY strengthened ties with its own entrepreneurial initiatives and generated new links with business initiatives that, seeking to increase their competitive capabilities, find a pillar for new developments or solutions to day-to-day problems at IQS.

eClub: Associations, a key to crafting community

During academic year 2023-2024, the creation of the eClub (Entrepreneurship Club) led by students from the IQS School of Engineering and the IQS School of Management has been reactivated. The reactivation of this group is linked to its role as laying the groundwork and promoting, between 2013 and 2015, today’s IQS TECH FACTORY.

eClub, currently made up of about fifty members, was founded as a committee integrated into the Campus Life dynamization programme with its Student Life branch. eClub brings together active students with entrepreneurs who, in close collaboration with IQS TECH FACTORY, are fed by different degrees of knowledge in the field of entrepreneurship.



Commitment to Research

9

The research at the IQS School of Engineering and the IQS School of Management aims to provide results that can be applied in industry, to create technology that can be transferred to the business community, consulting, conducting studies, providing services to companies and governmental entities, training on techniques applied to the development of products and improving production processes, as well as specializing in the different fields of the business world.

■ IQS is a founding academic partner of the MIT International Program, the MIT-Spain Program, which facilitates the exchange of students and teaching and research staff between IQS and MIT.

RESEARCH GROUPS

- **Materials Engineering Group (GEMAT).** Its activities include specialized training, basic and applied research, and technology transfer aimed at the business sector and it focuses on three major areas: the development of new functional materials, surface engineering, and biomaterials. It also provides technological, consulting, and R&D services in the areas of: materials characterization and formulation; studies on the qualitative chemical composition of paints and on the coating of ceramic particles; quantitative component analysis for polymeric materials and X-ray diffraction analysis; and the development of functional polymers, industrial formulations, inks with conductive and semiconductive properties, biodegradable polymers, biomaterials for scaffolds, and drug delivery systems.
- **Applied Photobiological Chemistry (APPLIGHTCHEM).** This research group specializes in the chemical aspects of the biomedical applications of light and focuses its research and transfer activity on solar photoprotection, cancer photochemotherapy, photoantimicrobial therapies, and fluorescence imaging diagnosis. It develops advanced chemical technologies for photoprotection and disease diagnosis and treatment with light-activated drugs.
- **Consumer Behavior Perspectives Group (CONHATIVE).** Its research focuses on the analysis of consumer behavior in consumer contexts such as services, e-commerce, the adoption of new technologies, sports, cultural heritage, tourism, retailing, and business organization and taxation. Its main lines of research include the study of consumer behavior in brick-and-mortar and digital environments, service and tourism marketing, purchasing behavior through ICTs, and the effects of participating in social media.

- *Corporate Governance (CORPGOV)*. Its research is fundamentally applied in nature and aims to be useful both to business leaders in decision-making and to regulators and public officials in designing policies and regulations, providing relevant information that can contribute to improving corporate governance structures. Its main research lines focus on audit quality, accounting management, good governance codes, and business performance.
- *Chemical Reactions for Innovative Solutions (CRISOL)*. It provides innovative chemical tools that offer solutions to the challenges of molecular science, a discipline that is at the heart of key activities for society such as medical chemistry, process chemistry, and materials science. This work combines the design of new reagents with breakthrough paradigms in the formation of chemical bonds that arise from the use of catalysis, light, or electricity. It carries out its activities in the areas of nuclear medicine, next generation organic materials, modern chemical methodology applied in various sectors, and effective chemical processes aligned with the Sustainable Development Goals (SDGs).
- *Electrochemistry and Bioanalysis Group (EQBA)*. The group's activity is structured around the different analytical, spectrometric, chromatographic, electrochemical, and optical techniques, both in their application and in their development. Its most noteworthy lines of research include the development of different types of sensors, the study of nanostructured materials and their environmental applications, and the study of contaminants and impurities in environmental, pharmaceutical, and food matrices.
- *Industrial Products Engineering Group (GEPI)*. Its activities focus on the calculation, design, and manufacture of industrial products, the management and evaluation of industrial product lifecycles, and additive manufacturing. It also provides technological, consulting, and R&D services in the areas of: reverse engineering (scanning objects with a scanner); modelling, rapid prototyping, and rapid tooling; virtual and physical layouts; mechanical characterization of materials; structural numerical simulations; PLM and LCA engineering; fluid calculation and simulation in biological organs; and design for additive manufacturing.
- *Environmental Process Engineering and Simulation Group (GESPA)*. Its research falls under the themes of environmental sustainability from a multidisciplinary perspective. Its lines of research focus on the areas of water treatment and reuse; mitigating the impact of greenhouse gases; the circular economy and energy sustainability; sustainability analysis and process improvement; the analysis of emerging and persistent pollutants; and environmental microbiology.
- *Vascular Engineering and Applied Biomedicine Group (GEVAB)*. This group focuses its efforts on integrating knowledge from medicine, biology, chemistry, physics, mathematics, and computing to provide comprehensive solutions to current medical problems in the field of cell biology, applied especially to the vascular environment, and to offer solutions that the medical biotechnology industry (pharmaceutical and medical devices) can introduce into clinical practice. The group studies and fights against vascular diseases such as atherosclerosis and aneurysms, as well as the interaction between the vessels and the organs that feed them, as in the case of the blood-brain barrier.
- *Biological Chemistry and Biotechnology Group (GQBB)*. The GQBB engages in international research projects from a molecular approach for applications in the fields of industrial biotechnology and biomedicine. Its main lines of research focus on the use of enzymes in the synthesis of bioactive products and pharmaceutical intermediates; the characterization of enzymatic activities; the analysis of proteins and determining enzymatic activities; bioprocesses and biocatalysis; the development of biotechnological processes and products; biotechnological applications in wastewater treatment; simulations of biotechnological processes; the evaluation of food formulations; the organic synthesis of drugs and bioactive products; and the identification and isolation of active principles from natural sources.
- *Pharmaceutical Chemistry Group (GQF)*. Its research focuses on new drugs with pharmaceutical and cosmetic formulation, applied biology and API production within the areas of biomedicine and health sciences with continuous chemical processes, and the application of new advanced manufacturing technologies in fine chemistry to transform and optimize batch-to-continuous production systems, making the processes more efficient, more stable, safer, faster, and cleaner. In the field of new drugs, it works on tyrosine kinase inhibitors with application in cancer, compounds that are active against chemokine-type receptors, and compounds with activity against myotonic dystrophy.
- *Applied Data Analytics and Modeling IQS (ADAMIQS)*. This group is aimed at applying data analysis and modeling techniques in the various areas of knowledge at IQS (biosciences, chemistry, engineering, and social sciences) and teaching these techniques in higher education. Its lines of research focus on the analysis of unstructured data and semantic modeling applied to engineering and business administration; multivariable modeling in biosciences with synthetic and experimental data; the analysis and modeling of social systems; higher education analytics; active learning methodologies in STEM higher education; and experiment design and optimization methods.

- *Applied Mechanics and Advanced Manufacturing (GAM)*. The group focuses on research and solving problems related to advanced manufacturing, the development, characterization, and efficient use of engineering-related grade materials, and the optimization of structural behaviour. Its lines of research focus on additive manufacturing (polymers, metals, optimization, and post-processing); materials science and engineering (composite materials, fracture, fatigue, impact, nano indentation, tribology, coatings, and diffraction); and the dynamic analysis of structures through approaches based on artificial intelligence.
- *Sustainability, Economics and Ethics (SEE)*. Its lines of research focus on the field of aporophobia by conducting research on its characteristics, connecting it with artificial intelligence, developing an implicit association test, and performing simulation models; the field of the Chinese economy development model; the field of economic growth and dynamic convergence, developing indicators on the quality and quantity of education, and the convergence of the Human Development Index in different countries; and the field of ecological economics and sustainability.
- *Tourism, Sustainability and Innovation (TSI)*. Its research focuses on the area of sustainable and responsible tourism with an emphasis on the responsible management of destinations, the ethics and governance of tourism, the impact of tourism on destinations, responsible tourist behaviour, current trends in responsible tourism, and volunteer tourism; along with the area of hospitality management, with a special emphasis on CSR for tourism companies, best practices in the hospitality industry, inclusive tourism, professional training, and disruptive technologies in tourism.
- *Chemistry and Synthetic Biology for Biotherapies (CHEMSYNBIO)*. The group combines chemistry and synthetic biology to create precision biotherapies and protein-based biomedical tools. Its main objectives are to treat tumours and other brain diseases, as well as understanding and improving the transport of drugs across the blood-brain barrier. Its areas of research and technology transfer include the development of bio- and nano-therapies, mainly to treat brain tumours; the study and engineering of transport systems across the blood-brain barrier; the engineering and chemistry of antibodies, proteins, and peptides for biomedical applications; and the development of conditionally active proteins.

- *Brain Metabolism Lab (BRAINMET)*. It investigates critical aspects of brain metabolism, its influence on neuronal functions, and its repercussions on neurodegenerative diseases. Its research areas focus on neurological functions and brain metabolism; brain metabolism and epilepsy; neurodegenerative diseases; and nanotherapeutics for metabolic brain diseases.

THESES DEFENDED

- *Creation of a delivery system for the implantation of endovascular patches.*
Author: Alejandro Aranda.
Thesis Supervisors: Dr Jordi Martorell and Dr Andrés García.
- *Novel protocols in restoration of corroded Pb metals from Cultural Heritage artifacts.*
Author: Patrícia Giménez.
Thesis Supervisors: Dr Salvador Borrós and Dr Sergi Colominas.
- *Industrial Production of Vitamin B12 with *Propionibacterium freudenreichii subs shermanii*.*
Author: Álvaro Calvillo.
Thesis Supervisors: Dr Antoni Planas and Dr Marc Carnicer.
- *Development of new strategies to generate conditionally-active proteins for precision therapies.*
Author: Roberta Lucchi.
Thesis Supervisors: Dr Benjamin Oller and Dr Salvador Borrós.
- *Prediction and evaluation of ADME properties of pyrido[2,3-d]pyrimidines as tyrosine kinase inhibitors for the treatment of pancreatic cancer.*
Author: Júlia Dulsat.
Thesis Supervisor: Dr José Ignacio Borrell.
- *Nanostructured ceramic coatings deposited by High-Power Impulse Magnetron Sputtering in an industrial scale reactor.*
Author: Neus Sala.
Thesis Supervisors: Dr Carles Colominas and Dr Manuel David Abad.
- *Leveraging learning-based computer vision for vibration informed structural diagnosis.*
Author: Ricard Lado.
Thesis Supervisor: Dr Marco Antonio Pérez.

- *Contributions to the Development of Cured-in-Place Pipe Composite Liners for Pressure Water Pipes Rehabilitation.*
Author: Ferran Gras.
Thesis Supervisors: Dr Marco Antonio Pérez and Dr Antoni Andreu Torras.

- *Preclinical development of sprayable hydrogels for instant sealing of vascular anastomoses.*
Author: Gonzalo José Muñoz.
Thesis Supervisors: Dr Mercedes Balcells and Dr Natalie Artzi.

- *Development of new dielectric silicones and their application in sensors.*
Author: Joaquim Maria Rius.
Thesis Supervisors: Dr Núria Agulló and Dr Salvador Borrós.

- *Stability Analysis of Unbalanced Microgrids with Grid-Forming and Grid-Following Electronic Power Converters.*
Author: Sauro José Yagüe.
Thesis Supervisors: Dr Pedro Palacín and Dr Aurelio García.

- *Exploring Biomimicry: Integrating materials science strategies with 3D printing technologies to enhance the replication of biological tissues.*
Author: Glòria Nieva.
Thesis Supervisors: Dr Salvador Borrós and Dr Robert Teixidó.

- *Design and development of an adhesive for an endovascular patch.*
Author: Pau Teixidó.
Thesis Supervisors: Dr Jordi Martorell and Dr Salvador Borrós.

- *Targeted analysis for metabolomic studies in aquatic organisms.*
Author: Wei Wen Chen.
Thesis Supervisors: Dr Ana Belén Cuenca and Dr Alexadr Shafir.

- *Mitigation of environmental and operational variability in structural health monitoring through hybrid procedures and latent variable estimation.*
Author: Josep Font.
Thesis Supervisor: Dr Marco Antonio Pérez.

- *Design of a local delivery system for the treatment of abdominal aortic aneurysm.*
Author: Carles Bofill.
Thesis Supervisors: Dr Salvador Borrós and Dr Cristina Fornaguera.

- *Discovery and Validation of New Therapeutic Targets for Medulloblastoma Group 3 treatment.*
Author: Inés Teresa Fallon.
Thesis Supervisors: Dr Salvador Borrós and Dr Eva Méndez.

- *Questioning statistics for business administration through study and research paths.*
Author: Kristina Markulin.
Thesis Supervisors: Dr Marianna Bosch and Dr Ignasi Florensa.

- *Unleashing the power of experiences: the catalytic role of app technologies in unlocking consumers behaviours in sports.*
Author: Salma Habachi.
Thesis Supervisors: Dr Ramon Palau and Dr Jorge Matute.

Results of research activities		
19 DOCTORAL THESES DEFENDED	127 SCIENTIFIC ARTICLES PUBLISHED <small>OF WHICH 123 PUBLISHED INDEXED JOURNALS ON WOS, SCOPUS, OR LATINDEX</small>	4 BOOKS OR BOOK CHAPTERS PUBLISHED
4 PATENTS APPLIED FOR	59 RESEARCH CONTRACTS WITH COMPANIES	118 COMPETITIVE RESEARCH PROJECTS



10

IQS Executive Education

IQS Executive Education is the IQS division where senior professionals can enhance their managerial skills and companies can develop the talent within their organizations through in-company training, consultancy, coaching, and mentoring programmes.

The activities carried out during academic year 2023-2024 have focused on:

- The **CFA Level I Preparation Course** preparing students for the Level I exam and also establishing the foundation to be able to practice professionally in different financial fields: investment analysis, stock market analysis, capital markets operations, portfolio and wealth management, and corporate and financial management.
- The **IPM Executive Master** and the **University Specialization Diploma in International Purchasing Management (IPM)**, URL university specific degrees, are aimed at purchasing area managers to provide them with a strategic business vision and to develop their leadership capacity to lead the radical transformation of purchasing.
- The **University Specialization Diploma in Advanced Quality Laboratory Management**, a URL university specific degree, gives participants the necessary skills for quality management in the laboratory and optimizing its operation, both from the point of view of resources and internal customer satisfaction.
- The **Master's Degree in Operations Management** in the industrial sector and the **University Expert Degrees in Product & Process Engineering Management, Manufacturing Plant Leadership, and Global Logistics & Supply Chain Management**, URL university specific degrees, are programmes in which participants are trained to provide stability to the operations and supply chain of their company, making it a more productive, efficient, and profitable organization.
- The **Postgraduate Degree in Pharmaceutical Plant Engineering** is aimed at young professionals who wish to enter the pharmaceutical industry and professionals with experience and interest in improving their technical knowledge in the improvement or construction of pharmaceutical plants.

- **The Master's Degree in Event Organization and Business Tourism** offers participants a comprehensive vision of the events and business tourism industries, expanding participants' knowledge of key elements and processes that will enable them to plan and organize different types of events.

- **The University Expert Degree in Painting Technology**, a URL university specific degree, is aimed at professionals who want to gain an up-to-date immersion in the paint, ink, and varnish sector. The programme provides a comprehensive overview at the market level, including latest trends, legislation, quality, raw materials, formulation, and main applications.

- **The Apex Programme**, an IQS university specific degree, is specifically designed and focused on adding value and encouraging the growth of small and medium-sized enterprises in an increasingly competitive market.

- **The Executive MBA in Industrial & Technological Environments**, an IQS university specific degree, is aimed at professionals from industrial, technological, and scientific environments who are seeking to develop new skills to participate in their company's strategic discussions and lead their organization towards a new business model.

- **The University Expert Diploma in Environmental Ethics** is designed to strengthen professional ethical perspectives and to detect and address the ethical problems associated with environmental management, thus increasing their job satisfaction.

- **The University Expert Diploma in Structural Design and Packaging Development** provides the skills for participants to lead projects in the definition, design, and creation of packaging as containers, protectors, and product presentation elements.

- **The University Expert Diploma in Perfumes and Fragrances**, Market and Applications offers a holistic vision of the perfume industry through which participants develop the necessary skills to improve products, lead projects, and optimize commercial processes for companies in the industry.

Other open activities conducted include:

- **7 Management Capsules**, all of them courses lasting less than 2 weeks.

- **19 Focused Programmes** of between one and two months' duration.

Additionally, a total of **36 in-company or for-company programmes** have been carried out with 421 participants, involving advisory, training, mentoring, and executive coaching activities related to the areas of expertise in Purchasing, Project Management, Leadership, Quality, and Supply Chain.





Career Services

IQS contributes to economic, scientific, and technological development by training professionals who are capable of taking on positions of responsibility in companies and industries.

The degrees taught at IQS are directly connected with the professional environment. All courses have a significant hands-on approach and a high percentage of study time is dedicated to laboratories and workshops. Students have the opportunity to do in-company internships in every undergraduate and graduate programme, with mandatory internships included in all bachelor's degrees. Students also have the opportunity to do their Final Degree Project and Master Thesis in companies. These projects arise from an applied practical project in the sphere of each degree, which makes them stand out and enhances employment opportunities for IQS students.

CURRICULAR AND EXTRA-CURRICULAR INTERNSHIPS

The graduates of the IQS School of Engineering and the IQS School of Management have done in-company internships throughout their studies. As a result of this activity, a good percentage of these students are hired by the same companies.

- 202 internships managed in the official studies of the IQS School of Engineering.
- 204 internships managed in the official studies of the IQS School of Management.

PLAN FOR IMPROVING TRAINING IN CROSS-DISCIPLINARY SKILLS

IQS Career Services works to ensure that students find the company and job position that best suits their skills and professional profile. To this end, a series of instruments have been implemented as a means of accompanying students.

These instruments include:

- **Competency Test:** This makes it possible to define the competency profile of students to better fit the position and company that best suits their skills and values.
- **Mentoring:** Through different tools, and neurolinguistic programming during the course, a mentoring programme is offered for final-year undergraduate and master's degree students, with the aim of accompanying them in their decision-making when entering the workforce.

COMPANIES THAT PARTICIPATED IN THE INTERNSHIP FORUM AND THE EMPLOYMENT FORUM:

abante



accenture



AGC

AGC Pharma Chemicals

AIRE
ANCIENT BATHS

AkzoNobel

ALÀBRIGA
★★★★GL

Arplus[®]
IDIADA

areas

Bioiberica

bip.
HERE TO DARE

Bové Montero
y Asociados

CaixaBank

Casa Bonay

CATALONIA
HOTELS & RESORTS

CELSA[™]
GROUP

dallant⁺
Aromas para la alimentación

Damm

DANONE
ONE PLANET. ONE HEALTH

elis

EH
Endress+Hauser

ENGIE

Enginyers
Industrials de Catalunya

enterprise
rent-a-car

eurofins

EY
Building a better
working world

Galenicum
believe in life

gpo
group
A TYLin Company

Grant Thornton

GRIFOLS

H 10
HOTELS

INTERCONTINENTAL

Group - IPS
Industrial Projects Services

IQVIA

J. JUAN
Broke Systems

JORI &

KPMG

GRUPO
MENARINI

LEITAT
managing technologies

LINDE
WIEMANN

Lluch Essence



MAPFRE

mazars

MENGIBAR
Packaging Machinery

monocrom

MORCHEM
Your Innovation Partner

NOBU HOTEL
BARCELONA

pwc

Radar
process

rimsa
people rethinking solutions

Rubió

Scharlab
THE LAB SOURCING GROUP

seQura

simon

talent
point
HR CONSULTING

T D V
COMPLIANCE | TECHNOLOGY

TechData

TEN
TECHNIP
ENERGIES

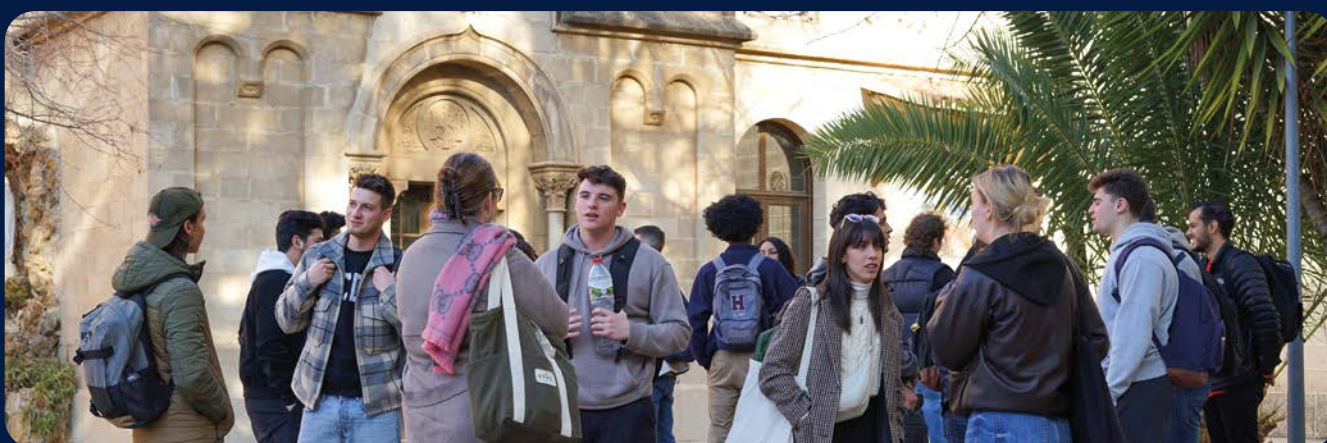
TEIDE
360 Refractory Solutions

Unilever

W
BARCELONA

Winche
REDES COMERCIALES

* Member companies of the IQS Business Foundation



A space that
combines
academic
excellence
and campus
life





12

IQS Business Foundation

IQS receives financial support and donations from companies and individuals through the IQS Business Foundation. These donations contribute to the constant improvement of IQS through four pillars: scholarships for students that promote equal opportunities; technology and innovation in the classrooms, contributing to building an innovative university; research activities supporting the creation of knowledge; and classrooms, infrastructure, and buildings that contribute to offering new spaces for innovation and the development of talent.

Founded in 1958, the IQS Business Foundation aims to **support training, research, and the relationship between IQS and the business world**. The Foundation carries out this task thanks to the economic support donated to IQS by more than one hundred Spanish and international companies that participate in the Foundation. In 2006, it became a founding partner of the MIT International Program, the MIT-Spain Program.

In academic year 2023-24, **CROMOLOGY, DC FINE CHEMICALS, INKE, LABORATORIOS INIBSA, TAKASAGO,** and **SANDOZ** have joined as members of the IQS Business Foundation.

The Executive Committee of the IQS Business Foundation is formed by Dr Josep Arcas Romeu (President), Dr Salvador Borrós Gómez (Vice-President), Ms Rosa Curt Santpera (General Secretary), Mr Carles Camp Pérez (Treasurer), and Mr Ignasi Cañagueral Laboria, Mr Manel Cerqueda Díez, Mr Jerónimo Farnós Marsal, Ms Sofia Lluch Saunier, Mr Jordi Martí Gascón, Mr Carles Navarro Vigo, Mr Jesús Santamaría Serna, and Ms Elisabet Stampa Jager in their capacity as members.

The Board of Trustees of the IQS Business Foundation is formed by Dr Josep Arcas Romeu (President), Dr Salvador Borrós Gómez (Vice-President), Mr Carles Camp Pérez (Treasurer), Ms Rosa Curt Santpera (General Secretary), and Mr Frederic Abelló Riera, Mr Ramón Agenjo Bosch, Mr Ignasi Cañagueral Laboria, Mr Marcos Cella Rey, Mr Manel Cerqueda Díez, Mr Álvaro Echevarría Arévalo, Ms M^a Luisa Espinós Soldevila, Mr Antoni Esteve Cruella, Mr Jeroni Farnós Marsal, Mr Luis Fernández-Goula Pfaff, Mr Marcos Fernández García-Marca, Mr Sergio Ferrer-Salat Serra di Migni, Mr Andrea Firenze, Mr Joaquim Folch-Rusiñol Corachán, Mr Jordi Gallardo Ballart, Mr Victor Aixetes Deu, Mr Enric Julià Danés, Mr Josep Lagares Gamero, Ms Rosa M^a Lleal Tost, Ms Sofia Lluch Saunier, Mr Jordi Martí Gascón, Mr Joan Molins Amat, Mr Carles Navarro Vigo, Mr Marian Puig Guasch, Mr Francesc Rubiralta Rubió, Mr Santiago Sabatés Mas, Mr Jesus Santamaria Serna, Ms Elisabeth Stampa Jager, Ms Mireia Torres Maczassek, Mr Joaquim Uriach Torelló, Mr Guillermo Vallet Millet, and Mr Carlos Ventos Omedes in their capacity as members.

In 2023-24, financial sponsorship and support contributions included the following

CLASSROOMS, INFRASTRUCTURE, AND BUILDINGS

- Sponsorship by **CAFÉS TUPINAMBA** and **GRUPO DISBESA** for the remodelling of the IQS Cafeteria and Restaurant.
- Sponsorship by **FUNDACIÓ METALQUIMIA** for a Flow Cytometer device.

GRANTS

- **FUNDACIÓ "LA CAIXA"**
1st International Conference on Apophobia
- **IBERHOSPITEX**
2nd Doctoral Student Conference
- **BANCO SANTANDER**
IQS Tech Factory

CORPORATE SCHOLARSHIP PROGRAMME

- **27 Academic Excellence Bachelor's Degree Scholarships:**
Aimed at students with excellent academic records, they consist of financial aid and support to study Bachelor's Degrees and Dual Bachelor's Degrees at the IQS School of Engineering and the IQS School of Management.
- **3 CARBUROS METÁLICOS** scholarships awarded to Eloi Sanromà Hernández, who is studying the Dual Bachelor's Degree in Chemical Engineering and Business Administration and Management, Valeria Darvas García, who is studying the Bachelor's Degree in Industrial Engineering, and Berta Moliner Erro, who is studying the Bachelor's Degree in Biotechnology.
- **2 ERNESTO VENTÓS** scholarships awarded to Tània Farnós Pérez de Baños and Lian Shidong Porta Coll, who are studying the Bachelor's Degree in Biotechnology.
- **2 FUNDACIÓ CAIXA ENGINEERS** scholarships awarded to Liam Cuberas Gallego and Josep Camprodon Sánchez, who are studying the Bachelor's Degree in Chemistry and Chemical Engineering.
- **2 FUNDACIÓ PUIG** scholarships awarded to Guillem Boigues Coll, who is studying the Dual Bachelor's Degree in Biotechnology and Business Administration and Management, and Clara Ferrer Segarra, who is studying the Bachelor's Degree in Biotechnology.
- **3 GRUPO AC MARCA** scholarships awarded to Laia Torrella Adriaensen, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering, Cristina Guarch Pascual, who is studying the Bachelor's Degree in Business Administration and Management, and Emma Ricart Lloret, who is studying the Dual Bachelor's Degree in Chemical Engineering and Business Administration and Management.

- **3 GRUPO ALTADIA** scholarships awarded to Álvaro Roviralta Pastor, who is studying the Bachelor's Degree in Industrial Engineering, Guillermo Roviralta Pastor, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering, and Elisabet Víchez Cervera, who is studying the Bachelor's Degree in Biotechnology.
- **3 JORI ARMENGOL** scholarships awarded to Álvaro Allende Varela, who is studying the Dual Bachelor's Degree in Industrial Engineering and Business Administration and Management, Carla Gaspà Vivanco, who is studying the Dual Bachelor's Degree in Biotechnology and Business Administration and Management, and Leyre Losantos Jareño, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering.
- **2 JOSEP RIBÉ** scholarships awarded to Cheng Wang, who is studying the Dual Bachelor's Degree in Biotechnology and Business Administration and Management, and Oriol Sanahuja Gacén, who is studying the Bachelor's Degree in Industrial Engineering.
- **3 LETIPHARMA** scholarships awarded to Biel Salvador Plana, Mariona Argemí Cutiller and Laura Fernández Moreno, who are studying the Bachelor's Degree in Biomedical Sciences.
- **3 LUCTA** scholarships awarded to Esther Ting Cabrera Clapers and Clàudia Lorente Villaret, who are studying the Bachelor's Degree in Biotechnology, and Laura Gallego Olsina, who is studying the Bachelor's Degree in International Business.
- **1 PROTEIN** scholarship awarded to Paula Esteve Casadevall, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering.
- **4 Financial Aid Bachelor's Degree Scholarships:**
 - **2 FUNDACIÓ OCCIDENT** scholarships awarded to Marc Manrubia Escudero and Jordi Serra Palomares, who are studying the Bachelor's Degree in Chemistry and Chemical Engineering.
 - **2 FUNDACIÓ M^a FRANCISCA ROVIRALTA** scholarships awarded to Marta Minayo Ayala, who is studying the Bachelor's Degree in Biomedical Sciences, and Estela Marina Mangalavite, who is studying the Bachelor's Degree in Biotechnology.
- **14 Academic Excellence Master's Degree Scholarships:**
Aimed at the best academic transcripts for undergraduate students studying at IQS in order to continue their education at IQS, awarded at the Annual Corporate Scholarship Event held by the IQS Business Foundation:
 - **1 ANDBANK** scholarship awarded to Pavel Abdulmyanov Bulaeva, who is studying the Master's Degree in Wealth and Financial Management.

- **1 EQUATORIAL COCA-COLA BOTTLING COMPANY** scholarship awarded to Alessandro Bugno, who is studying the Master in Global Entrepreneurial Management.
- **1 CELSA GROUP** scholarship awarded to Arnau Roselló Garriga, who is studying the Master's Degree in Industrial Engineering.
- **1 COVESTRO** scholarship awarded to Meritxell Sitjà Fernández, who is studying the Master's Degree in Chemical Engineering.
- **1 EUROGRAGANCE** scholarship awarded to Mireia Ferrer Valls, who is studying the Master's Degree in Analytical Chemistry.
- **1 GRÍFOLS** scholarship awarded to Mathilde Lemaire Galipienso, who is studying the Master's Degree in Bioengineering.
- **1 KLINEA** scholarship awarded to Mireia Torrelles Fernández, who is studying the Master's Degree in Biopharmaceutical Business.
- **1 LLUCH ESSENCE** scholarship awarded to Blanca Isart Maso, who is studying the Master's Degree in Pharmaceutical Chemistry.
- **1 MESOESTETIC** scholarship awarded to Anna Marimon Klefisch, who is studying the Master's Degree in Biopharmaceutical Business.
- **2 NATURGY** scholarships awarded to Pablo Bècle Garcia and, for female talent, to Sofia Cabal Tauler, who are studying the Master's Degree in Chemical Engineering.
- **1 ROCA SANITARIO** scholarship awarded to Irene Salto Talaya, who is studying the Master's Degree in Materials Science and Engineering.
- **1 TECHNIP ENERGIES** scholarship awarded to Mireia Bonich Aranda, who is studying the Master's Degree in Chemical Engineering.
- **1 WERFEN** scholarship awarded to Maria Bericat Tobella, who is studying the Master's Degree in Bioengineering.

FINAL DEGREE PROJECT HONOURS

- Honorary Distinction from Càritas Diocesana de Barcelona for the best Final Degree Project at the IQS School of Management: Title of the Final Degree Project: GreenRoof.
Student: Berta Vall i Brossa, who is studying the Bachelor's Degree in Business Administration and Management.
Final Degree Project Supervisor: Mr José Fazio.
- Honorary Distinction from Càritas Diocesana de Barcelona for the best Final Degree Project at the IQS School of Engineering: Title of the Final Degree Project: The challenges of pharmaceutical care for the homeless in Barcelona.
Student: Marta Bel Esteve, who is studying the Bachelor's Degree in Pharmacy. Supervisor: Dr Oriol Quintana, IQS Identity and Mission Representative.



€686,387

TOTAL FINANCIAL
CONTRIBUTIONS
MANAGED BY THE
IQS BUSINESS
FOUNDATION

Founding Member of the MIT-Spain Program:



Member of:



Partners



*Sempre amb
els joves*

COMPANIES THAT BELONG TO THE IQS BUSINESS FOUNDATION





**IQS
Alumni**

13

During academic year 2023-24, IQS Alumni continued to advance and grow stronger as an active and dynamic community serving all IQS alumni. With the motto “Connecting, Accompanying, and Inspiring” as a guide, 53 activities have been organized aimed at fostering the relationships, inspiration, and professional development of our members.

This year, the second annual mentoring programme has been launched, which has been very well received by the community. This second edition featured the participation of more than 40 new mentors and 25 mentees, thus responding to a need long expressed by former students. This initiative has complemented career guidance services, offering a new way to connect and share experiences and evaluating profiles through the DISC method.

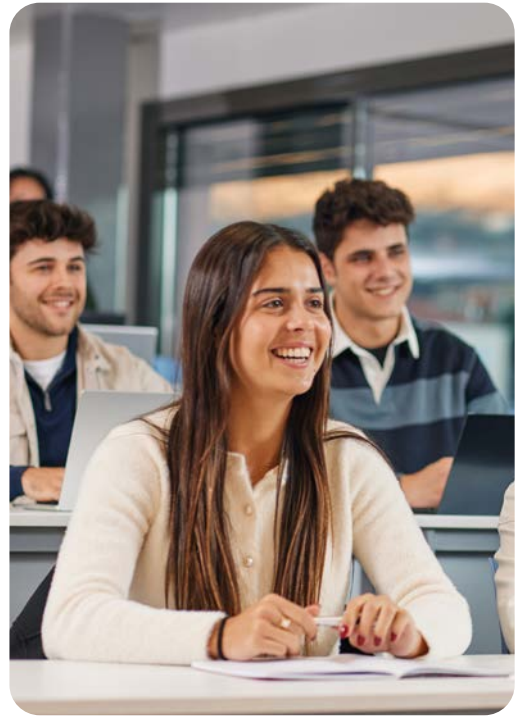
Professional development events have also played a central role, and it is worth highlighting the collaboration with the Association of Engineers of Catalonia to organize 4 “Speed Talent Networking” events in order to boost job opportunities for students. This alliance has made it possible to strengthen the ties between both institutions and offer more opportunities for professional growth to our alumni.

Another important milestone was celebrating the 41 Phytosanitary Products Sessions, now called Plant Health Summit, after 4 years. With a broader vision of the contents from past events, and updated according to the needs that society demands, based on plant health and sustainability. This event demonstrated IQS Alumni’s commitment to research and producing high quality scientific content. Their organization reaffirmed the importance of keeping the spirit of innovation and continuous learning alive within the alumni community.

As part of the social gatherings, the “Alumni Gathering” class dinners continue to be very well received, bringing together more than 1,100 alumni from different graduating classes at both the IQS School of Engineering and the IQS School of Management. In fact, for the first time, a multi-generational “Business Administration and Management Gathering” was held, successfully reuniting more than 80 attendees.

With regard to the most recent graduates, the “Alumni Welcome Party” has become consolidated as an outstanding event to welcome bachelor’s, master’s, and doctoral graduates who completed their studies in June. With a participation of nearly 50% of the new graduates (211 students), the meeting was held at the old Damm factory and served to introduce the new members to the AIQS Alumni community.

Finally, AIQS has taken advantage of the strengthening of the bond with IQS to unify efforts and create a more inclusive community that welcomes all alumni from the various degrees. This partnership has been instrumental in continuing to offer activities and services that respond to the changing needs of our network. One consequence was the launch, also for the first time, to all student families of the AIQS News magazine, with content that referred to networking as a tool for the future of students, and how IQS accompanies its students in all areas and throughout their lives.





14 Institutional Activity

During academic year 2023-2024, IQS held the following events related to the school, academics, and professional matters, along with receiving the following recognitions:

September

- IQS hosts the Conference on Teaching Science in Secondary School.
- IQS Engineering students participate in the Social Tech Challenge.

October

- IQS organizes the First International Conference on Aporophobia.
- IQS Tech Transfer participates in BIOSPAIN'23.
- Annual gathering for the bachelor's degree scholarship programmes for academic excellence, financial aid, and university master's degrees from the Business Foundation.

November

- IQS celebrates the Conference "Introduction to the Identity and Mission of Jesuit Universities."
- Four IQS doctors receive the Extraordinary Doctorate Award presented by the URL.
- IQS hosts the conference "R&D&i, competitiveness factors in Biotechnology."
- IQS participates in the 28th edition of "Science Week."
- 2nd Edition of the IQS Travelthon to support sustainable tourism.
- IQS hosts an exhibition on Dr Joan Oró.

December

- Dr Peter H. Seeberger, Director of the Max-Planck Institute in Germany, gives a keynote address at IQS.
- Debate day at IQS on social sustainability in tourism.

January

- The 25th IQS Symposium reflects on the limits of the market.

February

- Initiation of the IQS "Preparing for university entrance exams" sessions held for secondary school baccalaureate students.
- IQS organizes the Forum on food waste in the hospitality sector.
- IQS Tech Transfer participates in 4YFN as part of the World Mobile Congress.
- Inauguration of the new laboratory spaces for Analytical and Applied Chemistry equipped with cutting-edge technology.
- Inauguration of the new IQS corporate image.

March

- 2nd Edition of the IQS PhD Talent Programme Training Sessions.
- IQS participates in the technological expedition of the Princesa de Girona Foundation.
- IQS students present a Low Emissions Zone study for Barcelona to the Land Management Department.
- The IQS Department of Tourism and Hospitality Management organizes a training programme for Southeast Asia.
- IQS presents its bachelor's degree offerings at the 2024 Education Fair.
- IQS organizes the 24th UNIJES sports tournament.
- IQS students Daniel Clinjnk and Guillermo Gonzálbez receive the Avelino Corba National Award granted by the Association of Chemical Engineers of Spain.

April

- New edition of the ChemBioEng Talks.
- A scientific article by IQS researchers ranks among the most cited in the *Journal of Materials Chemistry*.
- IQS webinar cycle for secondary school baccalaureate students.

May

- IQS becomes a member of the Catalan Water Cluster.
- IQS students win 3rd place in the CESIM Elite business simulation competition.
- Beta Gamma Sigma induction ceremony for IQS students.
- IQS students participate in a service-learning experience with the Assisi centre.
- Annual Meeting of the IQS Business Foundation, which included the conference "Sustainability and financial success for companies: reality or utopia?", led by Dr Cristina Alonso Alija, Head of Sustainability, Safety, Health, and Environment at BAYER.

June

- Dr David MacMillan, Nobel Prize in Chemistry, awarded an honorary doctorate from Ramon Llull University proposed by IQS.
- Opening of the exhibition on the Department of Organic Chemistry's 60th anniversary.
- IQS holds the 3rd International Workshop on the development model of the Chinese economy.
- Awards ceremony for the 10th edition of the "There's Chemistry Here" contest organized by IQS.
- IQS Identity and Mission conference of experts.
- IQS hosts a conference on innovation and science in the cosmetics sector.
- IQS participates in the 7th edition of the School of Photobiology organized by the European Society for Photobiology.
- Students from the Pan American University of Guadalajara participate in the International Week on Innovation and Entrepreneurship organized by IQS.
- Graduation Ceremony for the IQS class of 2024 master's degree students with Dr Patricia Castejón, Global Head of Strategy at Henkel, as class sponsor.

July

- Graduation Ceremony for IQS bachelor's degree students with Ms Alicia Richart, General Manager Spain & Portugal at Afiniti, as class sponsor.
- IQS organizes the Summer Camp "Experiment and learn: chemical analysis of food, water, and cosmetic products" aimed at secondary school scientific baccalaureate students.



August

- During academic year 2023-24, IQS and the "La Caixa" Banking Foundation have signed a collaboration agreement to enhance and consolidate the research activity of newly incorporated professors and researchers, an agreement that supports the development of the project "Research Grant Programmes 2020" through the financial contributions the foundation makes.

**AS A UNIVERSITY CENTRE
ASSOCIATED WITH THE
SOCIETY OF JESUS AND
A FOUNDING MEMBER OF
RAMON LLULL UNIVERSITY, IQS
FORMS PART OF THE FOLLOWING
ASSOCIATIONS**



15 This is IQS

OFFICIAL DEGREES

10

BACHELOR'S
DEGREES

5

DUAL
BACHELOR'S
DEGREES

12

MASTER'S
DEGREES

8

DUAL
MASTER'S
DEGREES

3

DOCTORATES

SCHOLARSHIPS AND GRANTS

€2,739,665

FOR SCHOLARSHIPS AND GRANTS

2,593

TOTAL STUDENTS

UNDERGRADUATES

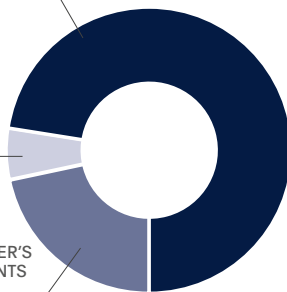
2,223

DOCTORAL
STUDENTS

106

OFFICIAL MASTER'S
DEGREE STUDENTS

264



1,485

STUDENTS IN THE
IQS SCHOOL OF
ENGINEERING

1,108

STUDENTS IN THE
IQS SCHOOL OF
MANAGEMENT

ERNEST SOLVAY LIBRARY - DOCUMENTATION CENTRE

28,156

VOLUMES

239

NEW VOLUMES

12,924

LIBRARY
ACCESSES

5,517

SUBSCRIPTIONS
TO ELECTRONIC
JOURNALS

18

DATABASE
SUBSCRIPTIONS

1,263

ELECTRONIC
BOOKS

40

SUBSCRIPTIONS TO
PAPER JOURNALS

599

LOANS

44,606

VISITS TO THE
WEBSITE

INTELLECTUAL CONTRIBUTIONS

127

PUBLICATIONS IN
SCIENTIFIC JOURNALS

123

IN WOS, SCOPUS, OR
LATINDEX INDEXED
JOURNALS

4

BOOKS OR BOOK CHAPTERS PUBLISHED

19

DOCTORAL THESES DEFENDED

4

PATENTS APPLIED FOR

59

RESEARCH CONTRACTS WITH COMPANIES

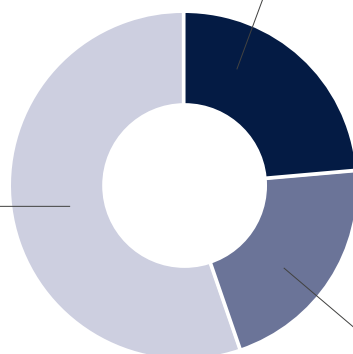
118

COMPETITIVE RESEARCH
PROJECTS

COMPETITIVE RESEARCH PROJECTS

STUDENTS
FROM FOREIGN
UNIVERSITIES
STUDYING AT IQS

446



IQS STUDENTS
STUDYING
ABROAD AT
FOREIGN
UNIVERSITIES

192

AGREEMENTS
WITH FOREIGN
UNIVERSITIES

170

IQS STAFF

107

FULL-TIME
PROFESSORS
AND RESEARCHERS

98%

HOLD PHDS

87%

ARE ACCREDITED
BY AQU OR ANECA

91

ASSOCIATE
PROFESSORS

42

RESEARCHERS
IN TRAINING

109

ADMINISTRATION
AND SERVICES STAFF

TEACHING SPACE

TOTAL

23,868^{m²}

5,446^{m²}

FOR TEACHING
CLASSROOMS

8,721^{m²}

FOR LABORATORIES
AND WORKSHOPS

964

INDIVIDUAL WORKSTATIONS
IN THE LABORATORIES

ACCREDITATIONS



AACSB Association to Advance Collegiate Schools of Business, USA, for all programmes in the IQS School of Management.



Engineering Accreditation Commission

ABET *Engineering Accreditation Commission* for the Degree in Chemical Engineering (BS), Degree in Industrial Engineering (B. Eng.), Master in Chemical Engineering (MS) and Master in Industrial Engineering (MS).



Agència per a la Qualitat del Sistema Universitari de Catalunya

Institucional accreditation for the IQS School of Engineering and IQS School of Management as recognition of compliance with the internal quality assurance system in both schools.

RANKINGS



- *Master's Degree in Industrial Business Management (MIM)*, in the Top 100 worldwide (#77), standing out in the 100% employability rate indicator according to the FT Ranking Masters in Management.
- IQS School of Management in the Top 100 of the best business schools in Europe according to the FT European Business Schools Ranking.



2nd Catalan university and 3rd in Spain in the field of Business and Economics and 1st Spanish private university in the fields of Engineering and Chemical Engineering according to THE World University Ranking by Subject.



Master in Global Entrepreneurial Management, Master's Degree in Bioengineering, Master's Degree in International Marketing in a Digital Environment, and Master's Degree in Pharmaceutical Chemistry the "Top 5" in Spain.



1st Catalan university and 2nd in Spain in *Business Administration and Management*, and in the TOP 150 worldwide in Business Administration.



Among the Top 100 in Europe (#59), 5th best university in Spain, and 4th in the Catalan university system.



- 466th worldwide and the 3rd Spanish private university according to the QS World University Ranking.
- 21st worldwide and 1st Spanish university in Business; 101-150 worldwide and Top 5 in Spain in Hospitality; 1st university in Spain and 21-50 in the world in Marketing, according to the QS World University Ranking by Subject.
- Master in Global Entrepreneurial Management: TOP 100 (#91); Master's Degree in Industrial Business Management (#151); Master's Degree in International Marketing in a Digital Environment/ International Marketing and Sales Management: TOP 100 (#101), according to the QS Business Masters Ranking.



Recognition of the five Master's Degrees at the IQS School of Management in the Best Masters Ranking. In addition to the Executive Education Master's Degree in Purchasing.



1st group of the best universities in teaching and in the 5th group of universities worldwide with the highest performance in Spain.



5th Catalan university and Top 10 in Spain. The Bachelor's Degrees in Chemistry, Chemical Engineering, and Industrial Engineering at IQS with the highest score in the success rate of their graduates. For the Bachelor's Degree in Pharmacy, 6th Spanish university, 3rd private university in Spain, and 2nd place in the results of the Teaching and Learning dimension indicators.

ALLIANCES



THE INTERNATIONAL BUSINESS HONOR SOCIETY



The Board of Trustees is responsible for the ultimate governance of the Foundation, serving as representative and defining the Institution's lines of governance.

The Board of Trustees is made up of nine members, appointed by the Society of Jesus, and votes to choose a President who is responsible for presiding over and managing board meetings.

The IQS Internal and Good Governance Structure (approved at the IQS Board of Trustees meetings of 29 January and 7 April 2020) establishes the Board of Directors as the body that advises the school's management and coordinates its functional areas.

In academic year 2023-24, the IQS Board of Trustees and Board of Directors were formed by:

BOARD OF TRUSTEES

- Fr. Enric Puig Jofra, SJ, President
- Mr Marian Puig Guasch, Vice President
- Ms Alexandra Molina-Martell Ramis, Secretary
- Dr Josep Arcas Romeu, Member
- Fr. Silvestre Falguera Noya, SJ, Member
- Dr M. Carme Llasat Botija, Member
- Dr Enrique López Viguria, Member
- Dr Josep F. Mària Serrano, SJ, Member
- Dr Vicenç Pedret Clemente, Member

BOARD OF DIRECTORS

- Dr Salvador Borrós Gómez, Director of IQS
- Ms Sonia Amorós Ramos, IQS Administrative Director
- Mr Carlos Bel López, IQS People & Organization Director
- Dr Flavio Comim, Dean of the IQS School of Management
- Dr Marta Camprodon Rosanas, Campus Life Manager
- Dr Jordi Díaz Ferrero, Dean of the IQS School of Engineering
- Dr Carles Malet Falcó, IQS Associate Director
- Dr José Javier Molins Vara, IQS Registrar
- Dr Oriol Quintana Rubio, Head of IQS Identity and Mission
- Dr Marta Tena León, Director of Communications and Corporate Marketing
- Dr Núria Vallmitjana Palau, Director of IQS Tech Transfer

Academic offering

OFFICIAL DEGREES FOR ACADEMIC YEAR 2025-2026

BACHELOR'S DEGREES

- Biotechnology
- Biomedical Sciences
- Pharmacy
- Industrial Engineering
- Chemistry
- Chemical Engineering
- Business Administration and Management (progressively towards English)
- Business Administration and Management (entirely in English)
- Marketing (with Dual International Degrees, entirely in English and progressively towards English)
- International Business (with Dual and Triple International Degrees, entirely in English and progressively towards English)

DUAL BACHELOR'S DEGREES

- Biotechnology and Business Administration and Management
- Industrial Engineering and Business Administration and Management
- Chemistry and Business Administration and Management
- Chemical Engineering and Business Administration and Management
- Chemistry and Chemical Engineering

MASTER'S DEGREES

- Analytical Chemistry
- Pharmaceutical Chemistry (entirely in English)
- Industrial Engineering
- Chemical Engineering (entirely in English)
- Bioengineering (entirely in English)
- Biopharmaceutical Business (*) (entirely in English)
- International Marketing in a Digital Environment / International Marketing & Sales Management (entirely in English)
- Wealth and Financial Management
- Industrial Business Management (entirely in English)
- Circular Economy (entirely in English)
- Cosmetics and Fragrances
- Neuromarketing (*)
- Accounting, Data Analytics, and ESG Reporting (*)

DUAL MASTER'S DEGREES

- An IQS School of Engineering Master's Degree and the Master's Degree in Industrial Business Management
- Master's Degree in Chemical Engineering and Master's Degree in Industrial Engineering

DOCTORATES

- Bioengineering
- Chemistry and Chemical Engineering
- Business and Territorial Competitiveness, Innovation and Sustainability (CETIS), taught jointly with the Universidad de Deusto and the Universidad Pontificia Comillas, ICADE

(*) URL-specific degree



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