

annual report 22-23



Summary



Letter from the President

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When we publish the annual report of our activities every year, we trust that IQS is responding to the expectations of the institution, the business world, society, and the people who take action daily to ensure teaching, research, knowledge transfer, and a variety of support services in managing our vast array of activities. We must also recognize our students, who are the main beneficiaries of the above and are, at the same time, the protagonists of our day-to-day academic life and the future of society.

As long as we experience these feelings, our near or more or less distant environment follows its path: the abuse of our common home is undergoing a process of degradation. Wars continue and their ravages are increasing: human victims, habitat destruction, pain, and yet more pain. We should be ashamed of the abuse of children, of the mistreatment and murder of many women, of the migrants who do not reach the ports and die in the vastness of the seas, of the victims of slave labour, of the poor with whom we compete in cities under starkly different conditions. The PISA report that, with its realism, reveals a dream to us and makes us see that our children and adolescents do not sufficiently understand what they read and that, in using instrumental mathematics we're just not getting ahead... and in just a few years, many of them will be university students...

Through the realism that we hopefully seek, IQS strives to continue our work with a style that we have inherited and that we wish to maintain: institutional fidelity, attentive to the world around us and the challenges it poses, knowledge of reality, a willingness to offer answers, and generous service, because we are aware of the historical moment in which we are leaders and because we are aware of these promising times at IQS, we feel involved, and we want to contribute our efforts and collaboration. The IQS response calls for everyone's joint effort: new spaces, new degrees, new services for students, support for AIQS, and new training activities for internal staff, all at individual and institutional levels. And we do all of this with gratitude in the work we do every day, the work of people and the trust and collaboration of companies and institutions.

2023 has been a year marked by Ignatian anniversaries, by the experience of Ignatius of Loyola, an experience largely in Catalan territory, which is a benchmark for our hundred-year-old institution. We seek to share the gifts we receive in all areas of life and offer ourselves and collaborate in the action of God that passes and goes through our history again, accompanying our hopeful work for a future in which reconciliation between people is possible along with the restoration of our common home and a dignified life for all.

We must be aware of the institutional moment we are leading and the promising time at IQS. Let us be involved and contribute our efforts and collaboration. New spaces, new degrees, new services for students, support for AIQS, new training activities for staff members, personal training, and institutional training... Times of involvement and hopeful contribution.

Enric Puig Jofra SJ

President of the IQS Foundation



Letter from the Director

Time passes very quickly and we are once again drafting the IQS Annual Report, which reflects many of the activities and projects carried out by our institution during the past academic year. The activities of another year full of challenges, projects, and new dreams because, in reality, academic year 2022-2023 brought us a little of everything.

We began the year with the expansion of our facilities to adapt them to the new Bachelor's Degree in Biomedical Sciences and ended with the modernization of the Department of Analytical Chemistry research laboratories.

We have had a record number of first-year students enrolled here, with a figure that is close to six hundred new students in bachelor's degrees and that also saw high demand for some of our programmes that forced us to close the admissions process. This increase in students has been accompanied by the launch of new degrees, such as Biomedical Sciences, and the consolidation of other newly initiated degrees, such as International Business studies. Overall, including international students in exchange programmes, we have around 3,000 students in our official Bachelor's, Master's, and Doctoral studies. On its own, this figure represents the achievement of a milestone due to its quantitative value. More importantly, it also represents the challenge involved in making increased enrolment compatible, as we are doing, with high standards of quality in teaching and in the services we provide to students. Looking back a decade ago, seeing that ten years ago we were just above a thousand students, and seeing the evolution of recent years, certainly gives us great satisfaction and, at the same time, a strong enthusiasm to continue facing new challenges.

It has been a year in which we have been able to overcome the pandemic and see the return of international students

on our campus in large numbers. It also gives us another additional satisfaction to see how our institution is increasingly international and more intercultural yet is able to maintain its roots in the society we serve while opening up to the increasingly global world towards which we are heading.

However, one of the aspects I am most excited to highlight, given the qualitative leap it represents, is the fact that after two years of negotiations and thanks to an agreement with the Society of Jesus, IQS has been able to incorporate the Sarrià Spirituality House, with the Gardenyes House as an emblematic building. This addition has allowed us to expand our useful area by more than 5,000 m² and gives us room to improve services for our students and strengthen our capacity for research and technology transfer, as shown by the fact that during this past year we have reached a historical maximum of competitive projects achieved.

This increase in surface area has been accompanied by the consolidation of the Neuromarketing and Finance Laboratories with the aim of developing teaching and research laboratories in the School of Management as well.

Finally, I hope you enjoy this annual report, which has been prepared with our greatest enthusiasm. This year's report also incorporates our new corporate image as a symbol of the permanent adaptation that IQS has shown and that has made it an institution capable of being faithful to its founding values and of adapting, at all times, to the demands made by society.

Dr. Salvador Borrós Gómez
Director of IQS





Academic project

2

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, making 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 allow students to acquire a solid foundation of scientific knowledge, learn hands-on laboratory skills, and delve into 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 humanized healthcare, assistance, and pharmacotherapeutic knowledge. The programme 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 focuses on students acquiring knowledge in biosciences that enables them to apply research in the field of medicine in order to 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 develop leadership and management skills in global settings and manage and lead companies in digital, communications, and marketing areas. With a fully international experience, this bilingual programme offers the possibility of obtaining a triple bachelor's degree if students choose the option of spending 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 prepares future leaders in the tourism sector, making them ready to lead hospitality, event management, and leisure companies. At the same time, it combines the skills necessary for managing companies with skills related to hospitality in order to offer the best service to customers in this sector.

DUAL BACHELOR'S DEGREES

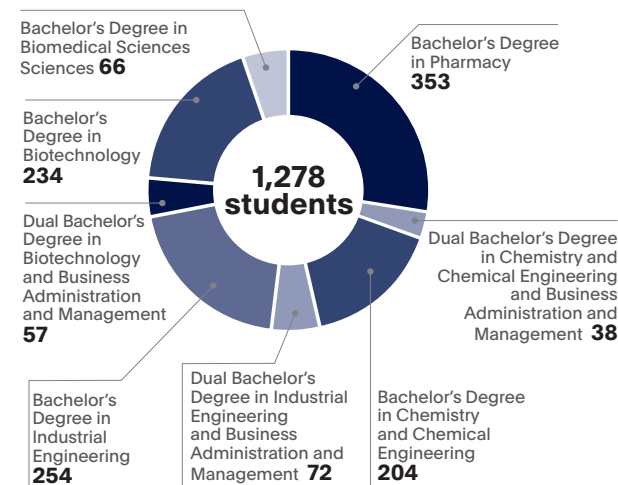
The **Dual Bachelor's Degrees** feature one of three scientific programmes in **Chemistry and Chemical Engineering, Industrial Engineering, or Biotechnology** and the **Bachelor's Degree in Business Administration and Management**. The dual bachelor's degree allows students to attain multidisciplinary education which combines a solid scientific and technological foundation with knowledge related to 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 DEGREES

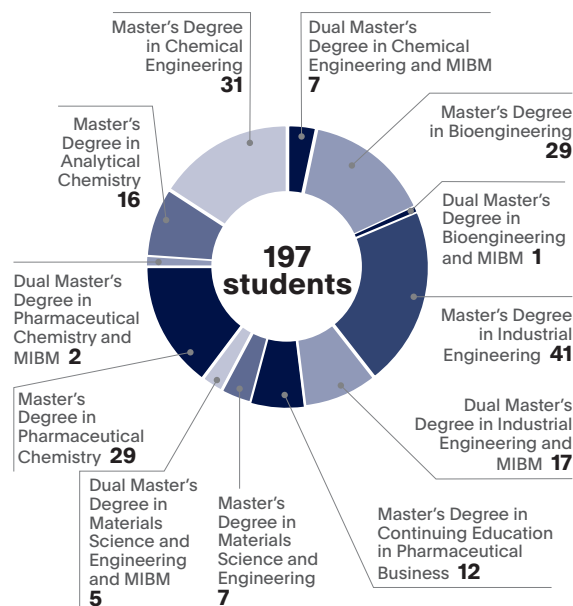
- **Master's Degree in Analytical Chemistry.** This master's degree prepares professionals and researchers with a profile applied to research and to product, process, and service development in different sectors related to analytical chemistry.
- **Master's Degree in Pharmaceutical Chemistry.** Taught entirely in English, this programme provides knowledge for future professionals on the research and development of products, processes, and services in different sectors related 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 chemical and biotechnological production processes used in industrial process plants.
- **Master's Degree in Bioengineering.** Taught entirely in English, this programme trains future professionals in high-level research and innovation in different biotechnological, food, and biomedical production sectors.

STUDENT STATISTICS IQS SCHOOL OF ENGINEERING

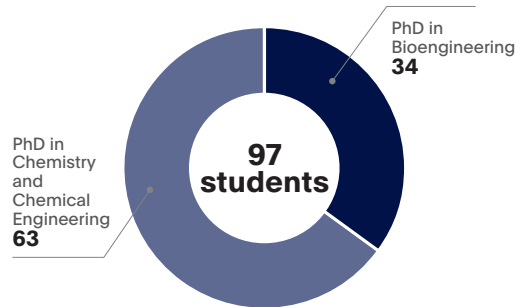
Bachelor's Degrees and Dual Bachelor's Degrees



Master's and Dual Master's Degrees



Doctoral Programmes

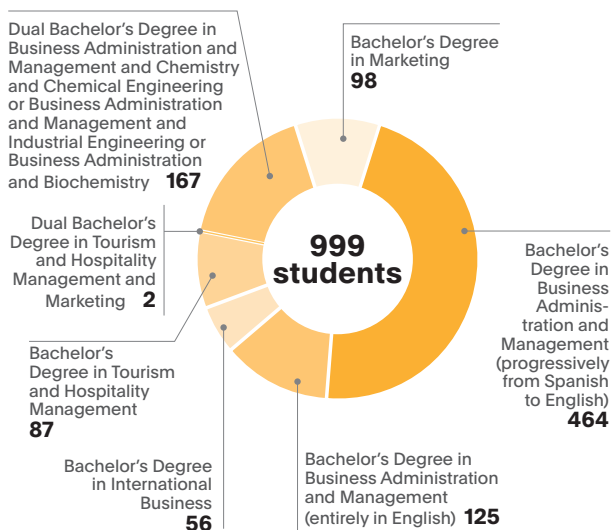


TOTAL IQS
SCHOOL OF
ENGINEERING

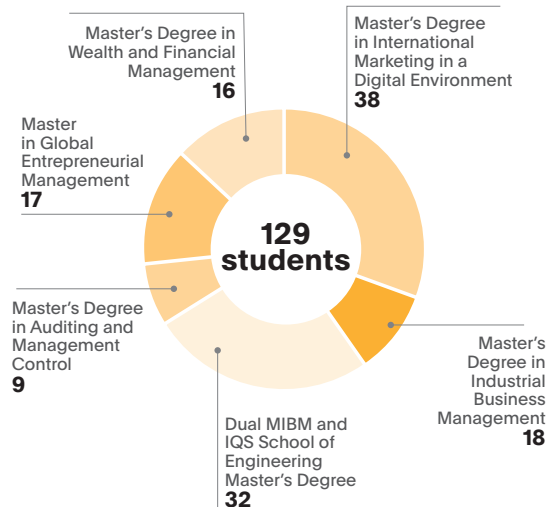
1,572 STUDENTS

STUDENT STATISTICS IQS SCHOOL OF MANAGEMENT

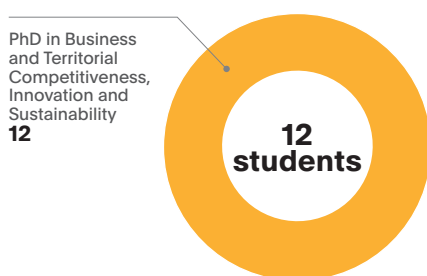
Bachelor's Degrees and Dual Bachelor's Degrees



Master's and Dual Master's Degrees



Doctoral Programmes



- **Master's Degree in Industrial Engineering.** This programme provides professionals with the skills society requires from the industrial engineering profession based on legal requirements.
- **Master's Degree in Biopharmaceutical Business.** Taught entirely in English, this programme trains professionals who wish to develop their potential in companies in the pharmaceutical, biotechnology, or medical technology sectors by providing them with a multi-disciplinary 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 and practical training in global markets as it is jointly run by IQS (Spain), Fu Jen University (Taiwan), and Loyola Marymount University (USA). Recognised by the Government of Catalonia with the International Master's Programme (IMP) distinction, 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 enables them to take on positions of responsibility in business management and administration.
- **Master's Degree in Marketing in a Digital Environment.** Taught entirely in English, this programme provides the skills 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 accounts auditing and the economic management of companies and enables students to partially validate the theoretical access test for membership with the Spanish Accounting and Auditing Institute (ICAC). 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 advanced and specialized technical training aimed at preparing students to take on positions in private banking, wealth management, corporate finance, and areas related to the world of financial markets in general. It is accredited by the Spanish National Securities Market Commission (CNMV) for positions established by the European Directive MiFID II (Markets in Financial Instruments Directive) and a member of the University Affiliation Program (UAP) of the Chartered Financial Analyst (CFA) Institute, the institution that issues the most recognized certification in the field of finance.

DUAL MASTER'S DEGREES

The Dual Master's Degree option allows students to combine any of the six masters programmes 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,

TOTAL
IQS SCHOOL OF
MANAGEMENT

1,141 STUDENTS

Master's Degree in Chemical Engineering, Master's Degree in Bioengineering, and Master's Degree in Industrial Engineering) with the Master's Degree in Industrial Business Management. This opportunity provides students with multidisciplinary training in which scientific and technological specialization is 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 Degree programmes have also been expanded with the possibility to pursue the Master's Degree in Industrial Engineering jointly with the Master's Degree in Materials Science and Engineering and with the option to pursue 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 who are 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 PhD programme has earned a Mention towards Excellence (Official State Gazette of 6 October 2011 of the General Secretary of Universities of the Ministry of Education).
- PhD in Bioengineering.** This programme trains doctoral researchers who are capable of conducting advanced research in the areas of bioengineering and biotechnology

and are able to join biotechnology companies as highly qualified professionals.

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

SCHOLARSHIPS

IQS awards scholarships based on criteria of academic excellence and financial need. Focusing on academic excellence criteria, students with excellent academic transcripts can benefit from a 50% reduction to tuition fees for undergraduate studies. During academic year 2022-2023, scholarships were awarded to students with excellent academic records both in IQS School of Engineering and IQS School of Management programmes. Based on financial need, students can apply for IQS Scholarships for the full or partial amount of the tuition fees for the academic year, based on the economic status of the student's household.

TOTAL AMOUNT OF SCHOLARSHIPS AWARDED IN ACADEMIC YEAR 2022-2023	<h1>€1,228,421</h1>
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Social commitment

IQS channels all activities related to the ethical and human dimension through the Department of Ethics and Christian Thought.

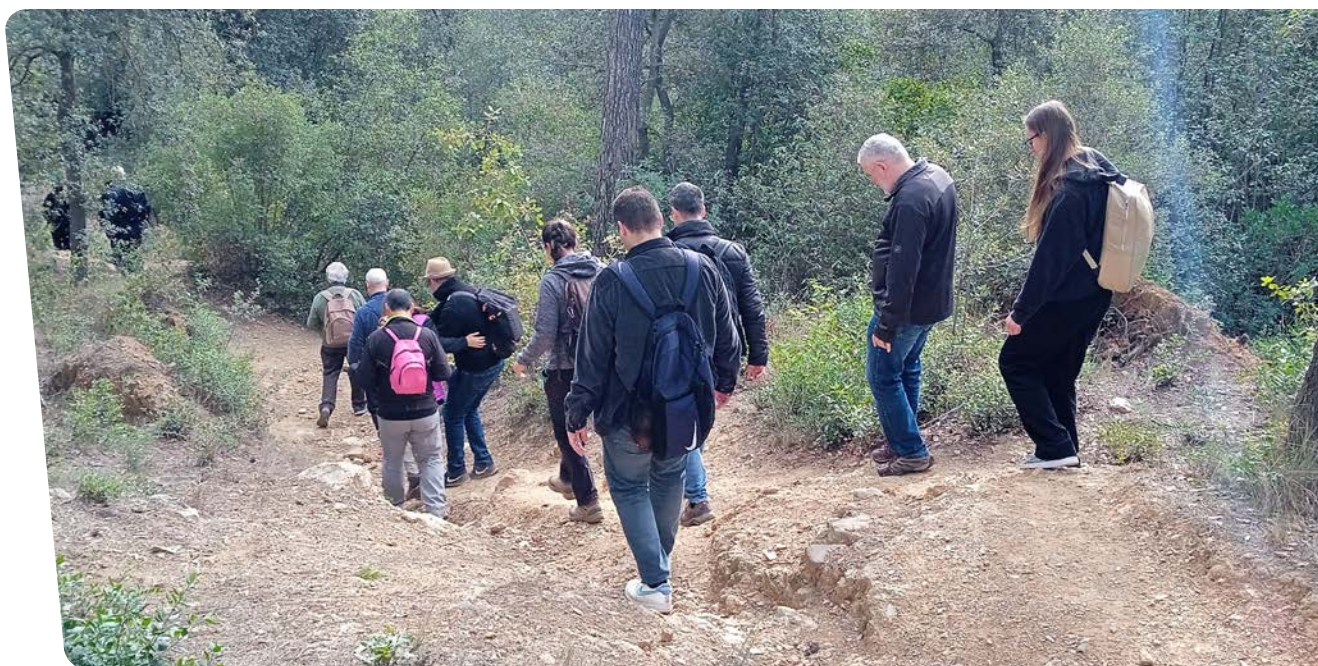
Designed as a **space for students and staff to come together for discussions and academic matters**, the Department of Ethics and Christian Thought aims to **reflect on the ethical dimension of the professions linked to the studies taught at IQS, to provide knowledge of the Christian faith, and to help students engage in volunteer activities**. 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 Ethos Chair of Ramon Llull University, the Borja Bioethics Institute, the International Association of Jesuit Business Schools (IAJBS), the Eastern 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

/ Reflection on the ethical dimension of the professions linked to the studies taught at IQS by:

- Teaching Ethics and related subjects in undergraduate and graduate programmes offered by IQS.
- Organization of workshops and events aimed at IQS students and faculty:
 - *Student's Briefing Days*, in which first-year undergraduate students receive a lesson about the history and unique character of the university. Third-year undergraduate students receive training in vocational discernment.
 - IQS Forums: gatherings organized by students with the support of the Student Life department in which topics of interest to students are discussed.
 - "How international am I?" (3 November 2022).
 - "The glass ceilings faced by women in engineering, science, and management positions" (2 March 2023).
 - "IQS Lunchtime Chats": a shared reflection on professional callings within the framework of a dialogue between students and an IQS professor or employee.
 - Lunchtime Chat with Dr Rafael González Olmos (24 November 2022).
 - Lunchtime Chat with Dr Pepa Blanco (13 April 2023).
 - Introduction to the IQS identity and mission (27 October 2022) for new professors and staff members at the Santa Cova Sanctuary in Manresa.
 - Celebration of the "IQS Community": various training days with themes related to the identity and mission of IQS:
 - "How to live Ignatian spirituality today?" with Dr Mariola López, RSCJ, professor at Loyola University of Andalusia (30 September 2022).
 - "What do Jesuits do in Europe?" with José Ignacio García, SJ, director of Christianity and Justice.
 - "Understanding Ignatian pedagogy" with Dr José María Guibert, Rector of the University of Deusto.

- “Discernment and choice” with Dr Luis María Salazar, professor at Loyola University of Andalusia.
 - 24th IQS Symposium: “Sense and transcendence in the 21st century” The challenges of a post-Christian society (11 January 2023).
 - “Secularization of Catalan society and new proposals for meaning” by Dr Mar Grieria.
 - “Progress and transcendence” by Xavier Casanovas.
 - “Spirituality, transcendence, and the construction of common horizons” by Dr Ignacio Sepúlveda del Río.
 - Pressing Discussion “What Chat GPT entails.”
 - Promotion of research and rigorous analysis within the framework of the subjects from the different academic programmes at IQS.
 - Regular Technoethics Seminar, aimed at university professors specializing in technology-related subjects and professionals from technology companies (February-June 2023).
- / Strengthening the Christian faith through different activities:
- Holding the weekly Eucharist.
 - Hiking the Ignatian Way with joint participation by IQS professors, students, staff (from 27 August to 1 September 2023).
 - Contemplative Hike in Collserola (26 November 2022).
- Ignatian Bike Route Verdú-Manresa (29-30/04/2023).
 - Meetings with the IQS Magis Group, in coordination with the Spanish MAGIS office.
- / Social volunteering activities:
- Coordination of IQS corporate volunteering to support the Assisi Centre, with the participation of IQS faculty and staff.
 - Participation by IQS students as volunteers with the La Vinya Foundation, the Migrastudium Foundation, the Cabestany Centre with the Charitable Service Foundation, and the Rossinyol Programme for mentoring children.
- / Promotion of charitable campaigns, such as:
- Participation in the food drive to support the Food Bank (25 November 2022).
 - Food donation to support the Assisi Centre (July 2023).
 - “More than Science and Technology” (17-19 February 2023).
 - Montserrat-Manresa Pilgrimage (24-25 March 2023).
 - Donation of school materials to support the Lestonnac Badalona School (June 2023).
 - Donation of cleaning products to the Cottolengo del Pare Alegre Centre (June 2023).





4 IQS Student Life

During academic year 2022-23, Student Life has furthered the work it carries out with the aim of offering services that adapt to the needs and interests of the different profiles of students who study at IQS and to strengthen their bonds and university experiences during their studies.

The services offered by the Student Life office are structured around three dimensions that complement one other:

STUDENT PARTICIPATION AND EXTRACURRICULAR ACTIVITIES:

Time at university has an important relational component for young people studying at IQS. Complementary to the academic activity in the classroom, students are also accompanied through projects and initiatives that aim to strengthen the links between students and IQS. To achieve this goal, Student Life organizes the following actions:

- Association Delegates, meetings with the heads of committees and clubs to handle proposals for activities.
- Student Committees:
 - Parties: organization of the IQS Brunch, an on-campus party with music and food that takes place once or twice per semester.
 - Sports: managing the teams that compete in the university leagues (women's basketball, men's basketball, men's 7-a-side football, and co-ed volleyball), the intramural league (7-a-side football), the UNIJES Sports League (organized by one of the Spanish universities of the Society of Jesus), and the sports activities during Student Week. Other occasional activities led by the students themselves, such as outings in nature (IQS Hiking), bicycle routes (IQS Cycling Club), and an online chess tournament, are also organized.
 - Green Fridays: organization of conferences and activities related to sustainability.
 - E-club: This group promotes entrepreneurship through activities and receives support from Tech Factory.
 - IQS Forum: meetings organized by students with the support of the Department of Ethics to discuss topics of interest to students.

- **Communication:** making posters for activities promoted on the campus and management of the Instagram account @iqstudentlife.
- **Debate Club:** group that works on how to debate, speak in public, and discuss specific topics. Students who form part of it can participate in debate tournaments with other universities.
- **Reading Club:** coordinated by Dr Oriol Quintana, this group meets to share their views about previously agreed upon reading materials.
- **Other proposals:**
 - **Maria Canals, Pianos in the street:** this project forms part of the Maria Canals Competition, held every spring in Barcelona. Participating in it enables us to place a grand piano on the campus available to the university community for an entire day. At IQS, the activity falls under Student Week (20 March 2023).
 - **DiR GyMs Stationary Bikes:** also falling within Student Week, stationary bicycles were located on the campus to measure the energy generated, promote physical activity, and reflect on academic learning related to energy generation and sustainability.

ACTIVITIES FOR THE VARIOUS STAGES IN STUDENT LIFE:

The Student Life Office coordinates all activities related to welcoming new students to IQS as well the graduation ceremonies, although the entire institution takes part in welcoming new students and accompanying them throughout their university experience.

These actions include:

- **Welcome for bachelor's and master's degree students:** these activities include the institutional and academic welcomes. They include teamwork activities and the presentation of services and tools that are useful for students.
- **Orientation Week:** welcome activities aimed at exchange students that are held at the beginning of each semester. This includes the presentation how academics work at IQS along with activities to facilitate student integration both on campus and in Barcelona.
- **Graduation Ceremony:** The Student Life Office takes a leading role in all bachelor's and master's degree graduation ceremony actions that directly affect students, from registering for the ceremony to the graduation speeches.

ADMINISTRATIVE AID AND STUDENT SUPPORT:

- **Legal advice:** The Student Life Office aids international students – whether at IQS for an entire degree programme or just for a course or a semester - by providing them with legal advice on administrative procedures (municipal registration, NIE or TIE issuance, renewal of student visas, opening a bank account, etc.) and holding specific conferences at the beginning of the semester with advice from lawyers to address specific situations and student consultations.
- **Accommodation:** The Student Life Office offers accommodation assistance through agreements signed with residence halls and other institutions and by providing advice to students during their search.
- **Mentorship Programme:** Mentorship Programme: this programme is aimed at first-year undergraduate students and aiMs to offer personalized follow-up to ensure that students are properly integrating into Barcelona and IQS. The programme includes personalized meetings to address academic (with an academic tutor) and extracurricular (with a Student Life staff member) aspects.

INTERNATIONAL MOBILITY:

Every year, countless IQS students go to other countries for an academic exchange (outgoing students), while numerous international students come to IQS (incoming students). Students who take part in these exchanges can spend a semester or an entire academic year abroad and usually go thanks to exchange agreements that IQS has signed with universities around the world. Likewise, IQS welcomes Free Mover students. In order for students to make the most of learning from these curricular activities, the Student Life Office carries out an exhaustive follow-up in multiple stages that are specified in the calls for exchange programmes, the selection and enrolment processes, the dissemination of scholarship programmes, monitoring of the experience, and the issuance and reception of academic transcripts for credit recognition.

International presence

5

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 UQÀM
- University of Guelph-Humber

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
- California State University - Northridge
- 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 Southeastern 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

IQS fully participates in making science, technology, and management more international and believes that strong international connections increase the quality of the studies, research, and perspectives of students and faculty at the school.

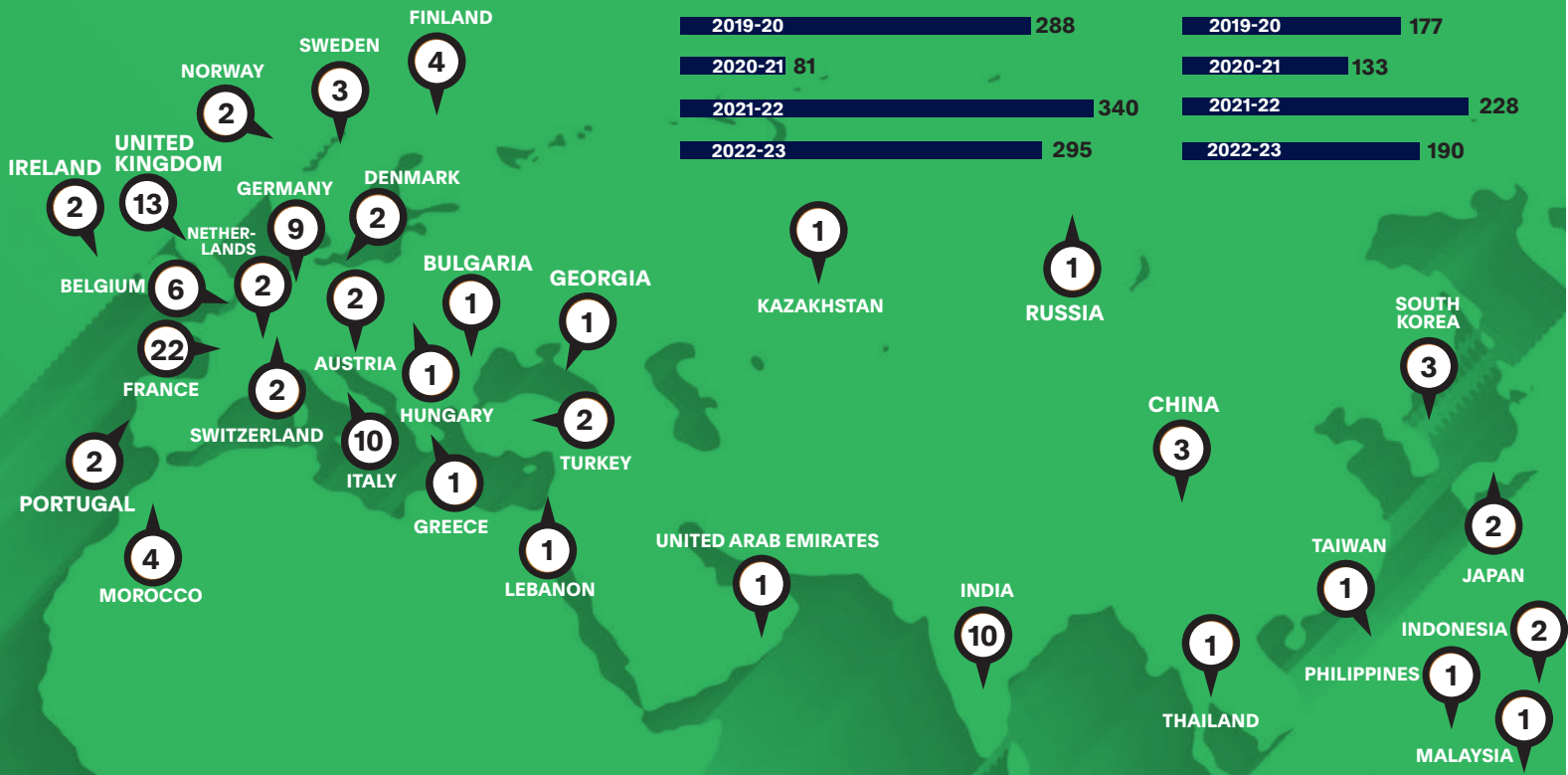
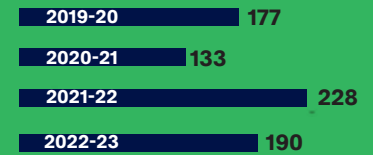
ACADEMIC EXCHANGES

IQS student and researcher exchanges with foreign universities are an ideal way of complementing academic studies with an experience that enriches participants both academically and personally. The exchanges take place at prestigious foreign universities with which IQS has exchange agreements. During academic year 2022-23 in concrete, IQS had exchange agreements with 166 universities: 86 in Europe, 31 in North America, 15 in South America, 1 in Central America, 29 in Asia, and 4 in Africa. Throughout the entire 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
(students from foreign universities coming to IQS)



EVOLUTION OF OUTGOING STUDENTS
(students from IQS going to foreign universities)



AUSTRIA

- MCI Management Center Innsbruck
- Modul University Vienna

BELGIUM

- Ghent University
- ICHEC Brussels Management School
- KU Leuven
- Thomas More University of 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
- Estice (Université Catholique de Lille)
- Faculté de Gestion, Économie & Sciences (Université Catholique de Lille)
- 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
- OTH 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

IRELAND

- Technological University Dublin
- University of Limerick

ITALY

- Ca' Foscari University 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)

NORWAY

- Norwegian University of Science & Technology
- University of Stavanger

PHILIPPINES

- Ateneo de Manila University

PORTUGAL

- Universidade Nova de Lisboa
- 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 (Northumbria 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



6

Technology transfer

IQS provides solutions for business 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: 1,242
Revenue: €1,085,771
Number of clients: 146

Research contracts

Number of contracts: 53
Revenue: €768,349
Number of clients: 45

Ongoing competitive projects

Number of projects: 88
Revenue: €2,103,980

Patents

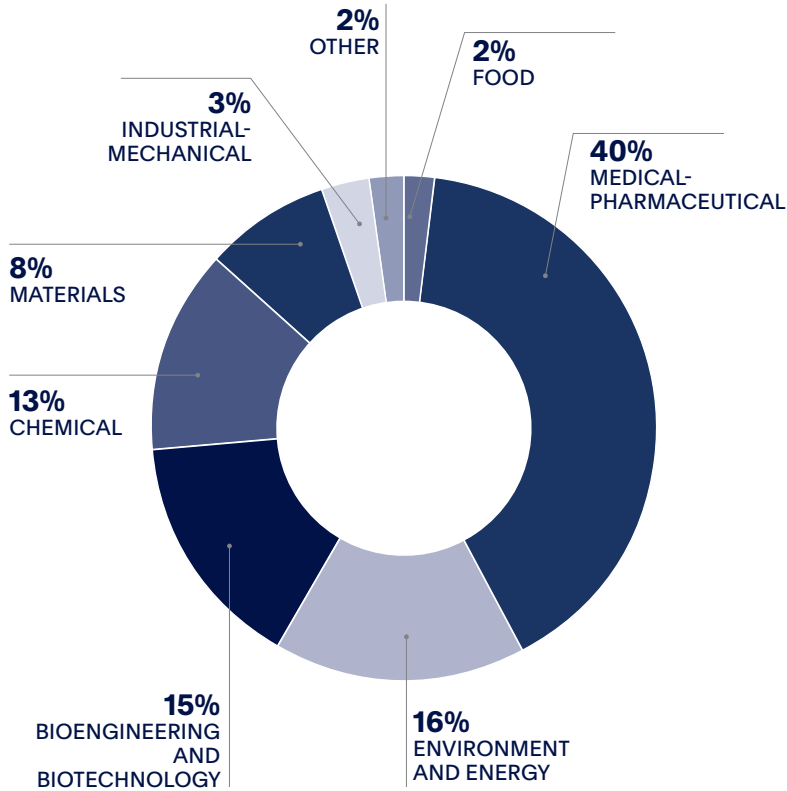
Number of patents applied for: 1
Revenue from royalties: €5,024

IQS Tech Transfer provides technical services, R&D&i projects, and consulting to industries, companies, and governmental entities. 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 Pollutants (dioxins and similar) in agri-food products (196/LE958).
- Accreditation for the analysis of dioxins and furones in atmospheric emissions 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 recognition that the Government of Catalonia awards through ACCIÓ to identify points where the most innovative technology can be found and the providers who offer it.
- Certificate of compliance with the Standards on the Correct Manufacturing of Medicines of the Government of Catalonia. Department of Health (NCF/1945/001).

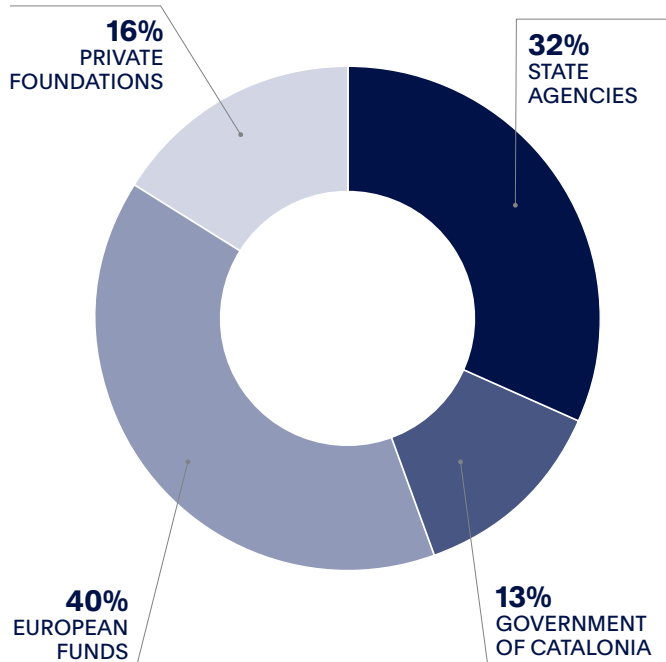
SERVICES FOR COMPANIES
Main areas of activity



ENTITIES THAT SPONSOR COMPETITIVE RESEARCH PROJECTS



RESEARCH FINANCING WITH COMPETITIVE FUNDS



CERTIFYING ENTITIES



NETWORK OF RESEARCH GROUPS





IQS Tech Factory

7

IQS Tech Factory, the centre of entrepreneurial activity at IQS, aims to promote an entrepreneurial spirit and provide support to the development of new business projects, in particular, transformational, scientific, or technology-based industrial projects. During academic year 2022-2023, IQS Tech Factory consolidated its activity focused on contributing to industrial development, accelerating and transforming industrial startups into innovative solutions for companies.

IQS TECH FACTORY, with an eye on the IQS community

IQS Tech Factory is the IQS unit that unites entrepreneurship and innovation with the aim of fostering entrepreneurial interests and providing initiatives with the tools they need in order to be carried out. Potential users of IQS Tech Factory include all members of the IQS community and their affiliates, converting interests into transformative and competitive business projects.

The activity at IQS Tech Factory is based on five interrelated strategic pillars: **inspiration**, showcased through events, presentations, and **training** capsules; training, with the creation of the Entrepreneurship Cluster that encourages classroom activities to have a continuous approach regarding the entrepreneurial development of students; the **incubation** of business ideas with the IQS Tech Factory Startup Challenge programme; and **acceleration**, with strategic agreements with different partners in the ecosystem and a specialized mentoring service to help startups as they take their initial business steps. Finally, gaining funding sources is the last pillar that is being worked on at present, with the aim of conceptualizing how to drive the possibility of gaining these financing options.

During academic year 2022-2023, 56 entrepreneurial initiatives were assisted by the unit, 56% more than the previous year, adding up to a total of 141 since its founding in 2015.

EXHIBITION “THE MAGIC FORMULA OF ENTREPRENEURSHIP: 110 YEARS OF ENTREPRENEURSHIP AT IQS”

During academic year 2022-2023, an informational and experiential exhibition was held with the support of Domestic Data Streamers, in which more than 400 entrepreneurial initiatives that have emerged from IQS graduates were analysed. In order to realize this exhibition, the results of Dr Núria Vallmitjana’s doctoral thesis, “*The entrepreneurial activity of IQS graduates*,” were taken into consideration, together with data collected from the unit itself in collaboration with the Department of Communication.

Holding this exhibition made it possible to highlight certain data that show the intrinsic entrepreneurial spirit IQS graduates hold as a common denominator.

The exhibition emphasized how IQS has been a leading university centre since its founding, where the creation of new companies has been a constant among its students. It also highlighted how each IQS entrepreneur, on average, has created 1.8 companies, with 40% of the initiatives launched between their graduation year and the five subsequent years, reducing the average creation time of the first company from 12 to 10 years.

IQS TECH FACTORY STARTUP CHALLENGE, the pre-acceleration programme to validate business ideas

IQS TECH FACTORY STARTUP CHALLENGE is the pre-acceleration programme at IQS TECH FACTORY where 15 projects in the advanced incubation phase were presented this year, and the 10 most likely to move into an acceleration phase when building a new company were selected. 40% of the initiatives that completed the programme have increased their commitment to entrepreneurship, either with a competitive programme to increase the value of their technical development or by developing an MVP (Minimum Viable Product) to start market tests with potential customers.

The programme serves as a turning point in the development of entrepreneurship: both before, during, and after it, entrepreneurs are accompanied by mentors and by the IQS TECH FACTORY team.

OPEN INNOVATION: The link between established companies, startups, and the university

At the beginning of May, IQS TECH FACTORY and CEMENTOS MOLINS organized a Hackathon as an important linking point to strengthen the ties between a leading company in its sector – Cementos Molins, also a member of the IQS Business Foundation – and students, posing a challenge to be solved in an immersive and intensive activity over the course of a weekend outside the IQS campus.

The Hackathon with Cementos Molins, addressing the challenge “I have concrete, cement, prefabricated, aggregate, mortar... what do I still need to remain the leader tomorrow?” taking into account the issue of sustainability, was solved with different proposals by groups of members from the IQS Community (students, alumni, faculty, and staff) under 27 years of age with the requirement that there be gender parity, and at least one student from each School, Engineering and Management, with a maximum of five participants per team, and five participating teams.

The resulting proposals were very well received by the Cementos Molins Innovation Committee, with the winner being the ROUND project - entailing the management of selective demolition and the reuse of construction and demolition waste, as a vertical integration within the value chain services of the Vallirana-based corporation.

In addition, the Open Innovation Sprint 2023 programme, co-organized by ACCIÓ within the Department for the Competitiveness of Business of the Government of Catalonia, has once again been carried out. The programme featured more than 167 participating companies that were able to follow it in person and online. Each of the in-person sessions was held at different locations of entities with which IQS TECH FACTORY collaborates, such as Pier01 of Tech Barcelona, the Barcelona Chamber of Commerce, Barcelona Health Hub, and the headquarters of ACCIÓ, where the closing ceremony for the programme was held.

IQS TECH FACTORY TALKS

In order to publicize new actions that promote entrepreneurship and innovation among its community in greater detail, on 7 March, a new session of the IQS TECH FACTORY TALKS was held at the headquarters of the Sarrià Theatre. Three entrepreneurs - Chloé Sucrée, Mónica Valls, and Valentina Garí - shared their entrepreneurial experiences in various areas of action such as healthy eating, sustainable fashion, and wellness programmes with the attendees.



Commitment to research

8

The research objectives at the IQS School of Engineering and the IQS School of Management focus on the industrial application of the results obtained, technology transfer to the business sector, and consulting, carrying out studies, and providing services to the public and the private sectors in addition to education in techniques applied to product development, improving production processes, and specialization in the various fields that can be found in the business world.

■ IQS is a founding academic partner of the MIT international program and 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 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 behaviour 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 behaviour in brick-and-mortar and digital environments, tourism services marketing, purchasing behaviour through ICTs, and the effects of participation in social networks.
- **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 the

design of 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)*. The group employs innovative chemical tools that provide solutions to the challenges of molecular science, a discipline that is at the heart of key activities for society such as medical and process chemistry and materials science. Its 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 fields 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 (digitalization of 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 Processes Engineering and Simulation Group (GESPA)*. Its research focuses on themes of environmental sustainability from a cross-disciplinary 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 the determination of 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 ingredients from natural sources.

- *Pharmaceutical Chemistry Group (GQF)*. Its research focuses on new drugs with pharmaceutical and cosmetic formulations, applied biology and API production within the areas of biomedicine and health sciences, and continuous chemical processes by applying new advanced manufacturing technologies in fine chemistry to transform and optimize production systems from batch to continuous, turning them into more efficient, more stable, safer, faster, and cleaner processes. In the field of new drugs, it works on tyrosine kinase inhibitors with applications for cancer, compounds that are active against chemokine-type receptors, and compounds with activity against myotonic dystrophy.

- *Applied Data Analytics and Modeling IQS (ADAMIQS)* focuses on the application of data analysis and modeling techniques in the various areas of knowledge at IQS (biosciences, chemistry, engineering, and social sciences) and the instruction of 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,

multivariate 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)*. It focuses on the research and resolution of problems related to advanced manufacturing, the development, characterization, and efficient use of engineering 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, nanoindentation, tribology, coatings, and diffraction), and the dynamic analysis of structures using approaches based on artificial intelligence.
- *Sustainability, Economics and Ethics (SEE)*. Its lines of research focus on the field of aporophobia and it conducts research on its characteristics, links it with artificial intelligence, develops implicit association tests, and carries out simulation models. In the field of China's economic development model and in the field of economic growth and dynamic convergence, it develops indicators regarding the quality and quantity of education and the convergence of the Human Development Index in different countries, as well as in the field of ecological economics and sustainability.
- *Tourism, Hospitality and Mobility (THM)*. This group aims its research towards the area of sustainable and responsible tourism, focusing on responsible destination management, tourism ethics and governance, the impact of tourism on destinations, responsible tourist behaviour, and current trends in responsible tourism and volunteer tourism. In the area of hospitality management, the group places special emphasis on Corporate Social Responsibility (CSR) for tourism companies, good practices in the hospitality industry, inclusive tourism, professional training, and disruptive technologies in tourism.
- *Chemistry and Synthetic Biology for Biotherapies (CHEMSYN- BIO)*. This 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 to understand and improve drug transport 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.

THESES DEFENDED

- *Development of Li sensors for its application in fusion technology*
Author: Marc Nel·lo Pascual.
Thesis Supervisors: Dr Jordi Abellà and Dr Sergi Colominas.
- *De novo development of novel DM1 toxic ncRNA targeting small molecules and its biological evaluation*
Author: Raul Ondoño Molina.
Thesis Supervisors: Dr Roger Estrada and Dr José Ignacio Borrell.
- *Novel approaches for the chemical, mechanical, and thermal post-processing of polymer components obtained by fused filament fabrication*
Author: Ariadna Chueca de Brujín.
Thesis Supervisors: Dr Giovanni Gómez and Dr Marco Antonio Pérez.
- *Modelling the extracellular environment of pancreatic ductal adenocarcinoma to study different aspects of disease progression*
Author: Nausika Betriu Rosselló.
Thesis Supervisor: Dr Carlos Eduardo Semino.
- *Exploring Molecular Diversity: There is Plenty of Room at Markush's*
Author: Leticia Manén Freixa.
Thesis Supervisors: Dr Jordi Teixidó and Dr Roger Estrada.
- *Fabrication of nanostructured surfaces by plastic injection*
Author: Tomás Baldi Boleda.
Thesis Supervisors: Dr Andrés Amador García and Dr Carles Colominas.
- *Design, synthesis and characterization of new potential inhibitors of the ZAP-70 protein for the therapy of peripheral T-lymphomas*
Author: Victor Massip Bareche.
Thesis Supervisors: Dr José Ignacio Borrell and Dr Albert Gibert.
- *Design and Optimization of the Recovery and Recycling of Fluorinated Working Fluids Using a Multiscale Simulation Approach*

Author: Daniel Jovell Hidalgo.
Thesis Supervisors: Dr Félix Lluís Novell and Dr Rafael González.

- *A metabolic engineering approach for alpha-galactosylceramide production in S. cerevisiae*
Author: Marc Caballé Margalef.
Thesis Supervisors: Dr Magda Faijes and Dr Antoni Planas.
- *Development of new methodologies for the synthesis of pyrido[2,3-d]pyrimidin-7(8H)-ones with target tyrosine kinase inhibitory capacity in pancreatic cancer*
Author: Claudi de Rocafiguera Viladecans.
Thesis Supervisors: Dr José Ignacio Borrell and Dr Raimon Puig de la Bellacasa.
- *Inhibitors of the Plasminogen/Plasmin system for the treatment of Traumatic Brain Injury*
Author: Oriol Bosch Sanz.
Thesis Supervisors: Dr Mercedes Balcells and Dr David Sánchez.
- *Critical raw materials for electric vehicles and battery technologies: supply risks, impact on the industry and strategic insights*
Author: Jordi Mas i Peiró.
Thesis Supervisors: Dr Josep Oriol Pou and Dr Rafael González.
- *Stealth graft polymers for nanoparticle based mRNA vaccines*
Author: Coral García Fernández.
Thesis Supervisors: Dr Salvador Borrós and Dr Cristina Fornaguera.
- *Synthesis and structure-activity relationship of new psychoactive substances. Role of ring-substitutions, amino-terminal group and alpha-carbon side chain length in the pharmacological profile of novel synthetic cathinones*
Author: Núria Nadal Gratacós.
Thesis Supervisors: Dr Xavier Berzosa and Dr Raúl López.
- *Protein-Based Targeted Delivery Systems for Antimicrobial Photodynamic Inactivation*
Author: Andrea Mussini.
Thesis Supervisors: Dr Santi Nonell and Dr Cristiano Viappiani.
- *Prediction of the emission of dioxins and furans during processes of thermal degradation of waste*
Author: Damià Palmer Comas.
Thesis Supervisors: Dr Josep Oriol Pou and Dr Jordi Díaz.

- *Genetic and metabolic engineering of the microalgae Chlamydomonas reinhardtii for the sustainable production of bioactive glycolipids*
Author: Bernat Miró Vinyals.
Thesis Supervisors: Dr Pablo Leivar and Dr Antoni Planas.
- *Design and Additive Manufacturing of Cellular Solids for Lightweight Hybrid Sandwich Structures*
Author: Albert Forés Garriga.
Thesis Supervisor: Dr Marco Antonio Pérez.
- *Poly(β -amino ester)-based nanocarriers for the co-delivery of siRNA and chemotherapeutic drugs*
Author: Andrea Martin del Rio.
Thesis Supervisor: Dr David Sánchez.
- *Consumer Behaviour in the New Digital Economy: Timely Challenges Concerning Consumers Engagement with New Digital Products*
Author: Félix Friederic.
Thesis Supervisors: Dr Ramon Palau and Dr Jorge Matute.
- *Exploring the Framework of Digital Transformation: A Multilevel Investigation from an Organizational and Employee Perspective*
Author: Pauline Weritz.
Thesis Supervisors: Dr Jorge Matute and Dr Jéssica Braojos.
- *Three essays on human mobility and child development in China*
Author: Huaxin Wuanglu.
Thesis Supervisors: Dr Octasiano Valerio and Dr Flavio Comim.

Fruit of the research activity		
<p>22 DOCTORAL THESES DEFENDED</p>	<p>131 SCIENTIFIC ARTICLES PUBLISHED <small>(OF WHICH 126 PUBLISHED IN SCI INDEXED JOURNALS)</small></p>	<p>4 BOOKS OR BOOK CHAPTERS PUBLISHED</p>
<p>1 PATENT APPLIED FOR</p>	<p>53 RESEARCH CONTRACTS WITH COMPANIES</p>	<p>88 COMPETITIVE RESEARCH PROJECTS</p>



IQS Executive Education

9

IQS Executive Education is the IQS division where senior professionals can improve their managerial skills and companies are able to develop their organization's talent through in-company training and consulting, coaching, and mentoring programmes.

The activities carried out over the course of academic year 2022-2023 have included:

- The **CFA Level I Preparation Course** that provides preparation for the Level I exam and also establishes the foundations to be able to practice professionally in different financial fields: investment analysis, stock market analysis, capital market operations, portfolio and wealth management, and corporate and financial management.
- **The Executive Master MIP** and the **University Specialization Diploma in International Purchasing Management (MIP)**, URL-specific degrees, aimed at purchasing managers to provide them with strategic business vision and to develop their leadership abilities to drive radical transformation in purchasing.
- **The Postgraduate Degree in Advanced Management of the Quality Laboratory**, a Ramon Llull University (URL) specific degree where the necessary skills for quality management in the laboratory are developed and its operation optimized, both from the point of view of resources and internal customer satisfaction.
- **The Master in Operations Management** in the industrial sector and the **University Expert Diplomas in Product & Process Engineering Management, Manufacturing Plant Leadership, and Global Logistics & Supply Chain Management**, all URL-specific degrees, in which participants are trained to provide stability to their company's operations and supply chain to make 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 IQS Master's Degree in Hospitality Management**, a Ramon Llull University (URL) specific degree that promotes and strengthens passion for hospitality and the calling for service with the aim of boosting professional careers so participants become leaders in the international hotel industry and the hospitality sector.
- **The University Expert Diploma in Paint Technology**, a URL-specific degree, aimed at professionals who wish to get an up-to-date immersion in the paints, dyes, and varnishes sector. The programme provides an overview at the market level on recent trends, legislation, quality, raw materials, formulation, and primary applications.

The other open activities that have been held include:

- **6 Technical ClassroomS and Management Capsules**, all courses that last less than two weeks in duration.
- **15 Focused Programmes** lasting between one and two months.

In addition, a total of **57 programmes were carried out in-company or for companies** that have involved consulting, training, mentoring, and executive coaching activities focused on the business areas of Purchasing, Project Management, Leadership, Quality, and Supply Chain.



10

Career Services

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

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 undergraduate programmes. 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 IQS students stand out and enhances their employment opportunities.

CURRICULAR AND EXTRACURRICULAR INTERNSHIPS

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

- 282 internships carried out within IQS School of Engineering official programmes.
- 384 internships carried out within IQS School of Management official programmes.

PLAN FOR IMPROVING TRAINING IN CROSS-DISCIPLINARY SKILLS

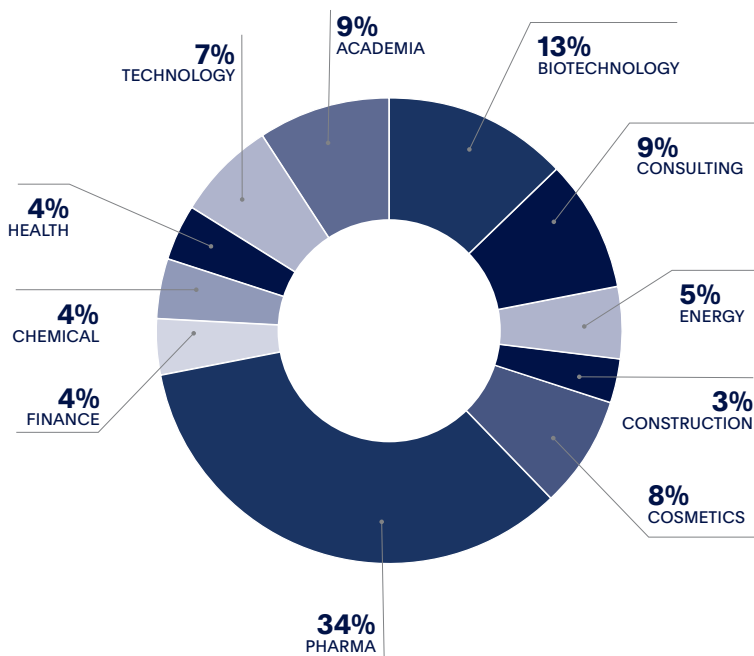
IQS Career Services works hard to ensure that students find the company and the job position that best suit their skills and professional profile. To this end, IQS Career Services has implemented a wide range of tools to accompany students.

These tools include:

- **Talent interview:** Individualized interview that makes it possible for each student to define the competences of ethics, responsibility, behaviour, proactivity, organization, problem solving, adaptability, teamwork, empathy, innovation, and communication. The interviews also help match students with the position and the company that best fits their professional profile.
- **Mentoring:** Through different coaching tools and neuro-linguistic programming (NLP) throughout the year, IQS Career Services offers a mentoring programme for fourth-year undergraduate and master's degree students with the aim of aiding them in their decision-making processes as they prepare to join the workforce.

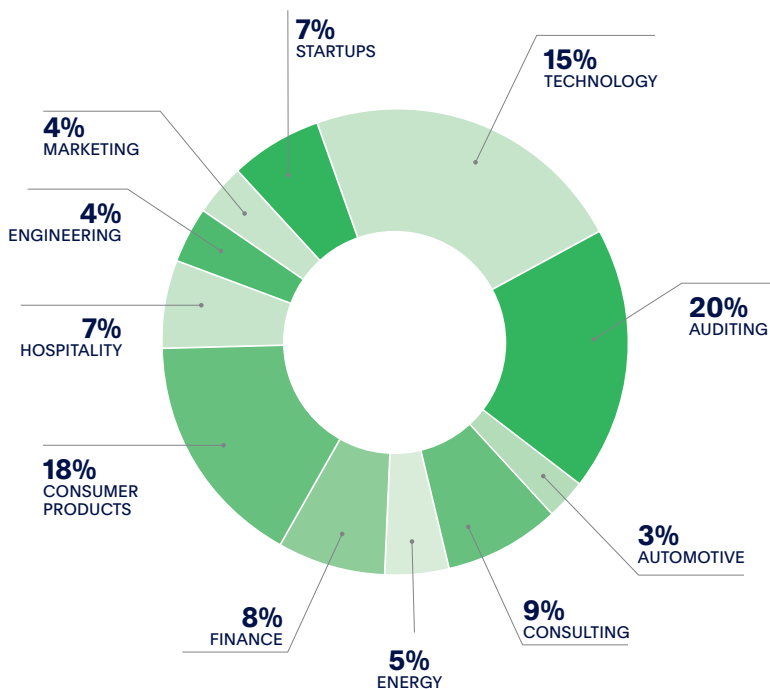
IQS School of Engineering

JOB PLACEMENT – FIRST JOB BY TYPE OF INDUSTRY



IQS School of Management

JOB PLACEMENT – FIRST JOB BY TYPE OF COMPANY



- Professional competences training: This aims to enhance students' skills so they are ready to tackle professional challenges more successfully. The contents that are focused on include preparing their Curriculum Vitae, updating LinkedIn profiles, job interviews, an elevator pitch, and emotional management.

- Personal and Professional Skills (PPS) programme: This workshop covers aspects that the labour market demands from future professionals. The process helps students to identify their starting point in terms of the professional skills they have acquired to subsequently reflect on how they can strengthen them and, finally, how they can be applied to the professional world.

- Training week for fourth-year undergraduate and master's degree students. The contents of this activity are linked to teamwork, emotional management, leadership, and networking. The activities are held for fourth-year undergraduate students - who are mixed together regardless of the degree they are studying - and master's degree students.

PROFESSIONAL EVENTS

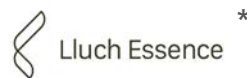
IQS Career Services organizes various events every year with companies to promote hiring and networking.

To this end, the actions carried out have included:

- Organization of the 2nd Internship Forum (27 October 2022). Aimed at fourth-year undergraduate students and master's degree students, in which 32 companies attended - 11 of which are members of the IQS Business Foundation - with solid internship offers for students.

- Organization of the 18th IQS Employment Forum (17 March 2023), in which 60 companies participated, 20 of which are members of the IQS Business Foundation. The IQS Employment Forum brings students and companies together in a single space, allowing the different parties to get to know each other first hand, enabling students to learn more about the selection processes they will face in the future, and making it possible for them to personally submit their CVs to prospective employers. Complementary to the companies' informational stands, the event featured different activities including informative roundtable discussions, specifically for the industrial sector, and personalized interviews for students with companies that have job openings. This year's event also featured Speed Networking sessions with 15-minute job interviews through the TeaMs platform with pre-selected candidates.

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



* Member companies of the IQS Business Foundation



IQS Business Foundation



IQS receives financial support from companies, individuals, and alumni through the IQS Business Foundation. These donations contribute to the ongoing improvement of IQS through four pillars: scholarships for students that promote equal opportunities; technology and innovation in the classrooms that contribute to building an innovative university; research activities that support 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 education, research, and the relationship between IQS and the business world**. The Foundation carries out this work thanks to the donations made 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**.



During academic year 2022-23, **Grupo Italfarmaco, Quality Chemicals, and Meinsa** joined as members of the IQS Business Foundation.

The Executive Committee is formed by Dr Josep Arcas Romeu, President, Dr Salvador Borrós Gómez, Vice President, Ms Rosa Curt Santpera, Secretary General, 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 is formed by Dr Josep Arcas Romeu, President, Dr Salvador Borrós Gómez, Vice President, Ms Rosa Curt Santpera, Secretary General, Mr Carles Camp Pérez, Treasurer, and Mr Frederic Abelló Riera, Mr Ramón Agenjo Bosch, Mr Ignasi Cañagueral Laboria, Mr Manel Cerqueda Díez, Mr Álvaro Echevarría Arévalo, Ms M^a Luisa Espinós Soldevila, Mr Antoni Esteve Cruella, Mr Jeroni Farnós Marsal, Mr Victor Grifos Deu, Mr Luis Fernandez-Goula Pfaff, Mr Marcos Fernández García-Marca, Mr Sergio Ferrer-Salat Serra di Migni, Ms Andrea Firenze, Mr Joaquim Folch-Rusiñol Corachán, Mr Jordi Gallardo Ballart, Mr Enric Julià Danés, Mr Josep Lagares Gamero, Ms Rosa M^a Lleal Tost, Ms Sofia Lluch Saunier, Mr Jordi Martí Gascón, Mr Carles Navarro Vigo, Mr Marian Puig Guasch, Mr Julio

Rodríguez Izquierdo, Mr Francesc Rubiralta Rubió, Mr Santiago Sabatés Mas, Mr Jesús Santamaría 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 academic year 2022-2023, financial sponsorship and support donations came in the form of:

CLASSROOMS, INFRASTRUCTURE, AND BUILDINGS

- Sponsorship by **CAFÉS TUPINAMBA** and **GRUPO DISBESA** for the remodeling work in the IQS Bar-Restaurant.
- Sponsorship by the **MARIA FRANCISCA DE ROVIRALTA FOUNDATION** for an IKA Screening System Package (8 cells).

GRANTS

- **OBRA SOCIAL "LA CAIXA"**.
 - Department of Ethics and Christian Thought.
 - 2nd International Workshop on the Chinese Development Model
- **BANCO SANTANDER**. IQS Tech Factory.

CORPORATE SCHOLARSHIP PROGRAMME

- **29 Undergraduate Academic Excellence Scholarships:** aimed at students who have excellent academic records, consisting of financial aid and support to study Bachelor's Degrees or Dual Bachelor's Degrees at the IQS School of Engineering and the IQS School of Management.
- **3 CARBUROS METÁLICOS** scholarships awarded to Lola Álvarez Sarroca, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering, Eloi Sanromà Hernández, who is studying the Dual Bachelor's Degree in Chemical Engineering and Business Administration and Management, and Valeria Darvas García, who is studying the Bachelor's Degree in Industrial Engineering.
- **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 D'ENGINYERS** 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 Anna Marimón Klefisch, who is studying the Bachelor's Degree in Biotechnology and Maria Costa Valldosera, who is studying the Bachelor's Degree in Chemical Engineering.
- **4 GRUPO AC MARCA** scholarships awarded to Laia Torrella Adriaensen and Lucia Par Gelabert, who are studying the Bachelor's Degree in Chemistry and Chemical Engineering, Anna Becerra Mumbrú, who is studying the Bachelor's Degree in Biotechnology, and Cristina Guarch Pascual, who is studying the Bachelor's Degree in Business Administration and Management.
- **3 ALTADIA GROUP** 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 Arnau Clapés Amat, who is studying the Dual Bachelor's Degree in Industrial Engineering and Business Administration and Management, Marta López Llorach, who is studying the Bachelor's Degree in Marketing, and Mireia Dalmau Bosch, who is studying the Bachelor's Degree in Business Administration and Management.
- **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 Miriam Teixidó Torres, who is studying the Bachelor's Degree in Business Administration and Management, Emma Ricart Lloret, who is studying the Dual Bachelor's Degree in Chemistry and Business Administration and Management, and Berta Moliner Erro, who is studying the Bachelor's Degree in Biotechnology.
- **4 LUCTA** Scholarships awarded to Helena Revelles Díaz, who is studying the Dual Bachelor's Degree in Biotechnology and Business Administration and Management, 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 PROEITEIN** scholarship awarded to Paula Esteve Casadevall, who is studying the Bachelor's Degree in Chemistry and Chemical Engineering.
- **2 Undergraduate Financial Aid Scholarships:**
 - **2 FUNDACIÓ JESÚS SERRA** scholarships awarded to Ainhoa Laratta Tortosa and Laia Alburquerque Benites, who are studying the Bachelor's Degree in Biotechnology.
- **15 Master's Degree Academic Excellence Scholarships:** aimed at students with the best academic records who completed their undergraduate studies at IQS to enable them to continue their education at IQS.
 - **ANDBANK** scholarship awarded to Mateo Rivero Queralt, who is studying the Master's Degree in Wealth and Financial Management.

- **EQUATORIAL COCA-COLA BOTTLING COMPANY** scholarship awarded to Anais Zurita Ramírez, who is studying the Master in Global Entrepreneurial Management.
- **CELSA GROUP** scholarship awarded to Ana García Romañach, who is studying the Master's Degree in Industrial Engineering.
- **COVESTRO** scholarship awarded to Helena Pérez Blanes, who is studying the Master's Degree in Chemical Engineering.
- **EUROFRAGANCE** scholarship awarded to Diego Laquintana Alonso, who is studying the Master's Degree in Analytical Chemistry.
- **GRIFOLS** scholarship awarded to Cristina Torres Atalao, who is studying the Master's Degree in Bioengineering.
- **LLUCH ESSENCE** scholarship awarded to Cristina Montaner Rey, who is studying the Master's Degree in Pharmaceutical Chemistry.
- **MULTIVAC** scholarship awarded to Mireia Molins Colomer, who is studying the Master's Degree in Industrial Engineering.
- **2 NATURGY** scholarships awarded to Nil Hernández Vidal and for female talent to María Millet Cairol, who is studying the Master's Degree in Chemical Engineering.
- **RAVAGO PLÁSTICOS** scholarship awarded to Guillem Villar Ruiz de Valdivia, who is studying the Master's Degree in Materials Science and Engineering.
- **ROCA SANITARIO** scholarship awarded to Alba Terzán Soler, who is studying the Master's Degree in Materials Science and Engineering.
- **TECHNIP ENERGIES** scholarship awarded to Alexandre Farré Fustero, who is studying the Master's Degree in Chemical Engineering.
- **WERFEN** scholarship awarded to Berta Vall Brossa, who is studying the Master's Degree in Bioengineering.
- **IQS TECH TRANSFER** Scholarship awarded to Candela Díaz Gracia-Lorés, who is studying the Master's Degree in International Marketing in a Digital Environment.

€635,583	TOTAL FINANCIAL DONATIONS MANAGED BY THE IQS BUSINESS FOUNDATION
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Founding Member of the MIT-Spain Program:



Member of:



Collaborators:



COMPANIES THAT FORM PART OF THE IQS BUSINESS FOUNDATION





AIQS

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Since its beginnings when it was founded in 1921, the IQS Chemists and Engineers Association has had the goal of promoting and advancing chemical science and technology to benefit society, IQS, and IQS graduates, along with promoting continuing education for its members. For its part, IQS Business Alumni was the network for graduates of the business programmes in the IQS School of Management and IQS Executive Education programmes. The aim was to help its members advance their careers, provide continuing education, and strengthen and maintain the bonds between alumni and the university.

These objectives are put into action and shared through a series of activities and services that contribute to personal relationships, education, and development in the different areas of interest and in professional areas through professional groups. The motto has always been "Connecting, Accompanying, and Inspiring."

In academic year 2022-2023, 55 different activities were held, including a new edition of the BIET Congress with more than 200 attendees, held on 7 and 8 June, 2023, reaffirming the commitment of the AIQS Alumni Professional Groups to research and the production of scientific content.

Moreover, the "Alumni Reunion" class dinners with more than 800 attendees from both IQS School of Engineering and IQS School of Management have continued to be organized, with excellent participation from 30 graduating classes attending.

It is also worth mentioning the organization of the first "Reunion" of the winners of the Father Salvador Gil awards, which has been awarded since 1960, with the participation of nearly 100 winners of all ages.

Also, the first "Alumni Welcome Party" was held in March, inviting all undergraduate, master's, and doctoral students who graduated in June, with a participation of 50% of them (218 students) within the former Damm factory.

In addition, the collaboration with the Catalan Association of Engineers has continued, sharing the development of "Speed Talent Networking" and sharing events and media to reinforce the good harmony between both institutions.

This past year, the effort also focused on the improvement and innovation of new service areas. In this case, the new annual mentoring programme was launched. In this first edition, more than 120 students signed up as potential mentors of the 40 students signed up as "mentees." The assessment of this activity has been very positive, since it was a historical request that went beyond the professional guidance services that had been offered for a long time.

Another important action has been to reinforce the presence in the best rankings of technical journals, of the journal *Afinidad* (the most prominent technical journal of chemistry in Spanish), reinforcing the publishing and management team.

It is also worth noting that the strengthening of ties with IQS is proving to be an opportunity for both institutions: for IQS, as a way of consolidating an alumni body that welcomes all graduates from any of the degrees offered, and for AIQS Alumni to continue building itself as a community at the service of graduates.



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Institutional activity

During academic year 2022-2023, IQS hosted the following academic and professional events related to the institution and received the following recognitions:

September

- IQS hosts the MedChem 2022 European Conference.
- Signing of the agreement between IQS and Almirall that facilitates internships for Pharmacy students at the company's headquarters.
- The International Society for Pharmaceutical Engineering presents its GAMP guide at the IQS campus.

October

- Beauty Cluster organizes a conference on innovation in the cosmetics industry at the IQS campus.
- The Japan-Spain Business Centre organizes a conference on bilateral exchanges in the chemical sector at the IQS campus.
- Annual IQS Business Foundation meeting on the IQS Bachelor's and Master's Degrees.

November

- IQS student Nicolás Espuny receives the award for the best university resume awarded by the Catalan Association of Economists.
- IQS student Andrés Ramos is awarded by the Ministry of Universities for his scientific research in the Master's Degree in Pharmaceutical Chemistry.
- IQS participates in the 27th edition of Science Week.
- Dr Benjamí Oller receives a grant from the European Research Center for his research on drug transmission to the brain.
- IQS joins the Eurofirms campaign to promote workforce integration for people with disabilities.
- IQS organizes the 1st edition of the Travelthon, aimed at high school students, to promote responsible tourism.
- IQS hosts the first laboratory with nuclear magnetic resonance equipment.

December

- IQS inaugurates the exhibition "110 years of entrepreneurship."
- The GEMAT group at IQS receives funding from the Fundació Marató TV3 for its research on major depressive disorders.

January

- IQS presents the Dr Lluís Comellas grant to promote mobility for IQS researchers.
- Inauguration of the Neuromarketing Laboratory at the IQS campus.
- Donation by Dr Pedro Victory Arnal SJ's family of his mineral collection to IQS.

February

- IQS launches the "Preparing for university entrance exams" practice sessions for secondary school baccalaureate students.
- IQS and the Barcelona Chamber of Commerce sign an agreement to promote innovation in startups.
- IQS holds the first edition of the Training Sessions for its PhD Talent programme.
- IQS and the Ona Futura Foundation sign an agreement to promote research on the protection of the seabed.

March

- Dr Cristina Fornaguera coordinates the European TumorOUT research project on therapeutic vaccines for lung cancer.
- IQS participates in 4YFN within the framework of the Mobile World Congress.
- IQS participates in the meetings organized by the Society of Jesus aimed at raising awareness about protecting the planet.
- IQS Tourism and Hospitality Management Bachelor's Degree students visit the global innovation hub Tech Barcelona.
- IQS presents its Bachelor's Degree offerings at the 2023 Education Fair.
- IQS hosts the presentation of the Fundació Princesa de Girona social projects.
- IQS PhD students Maite Molins and Josep Font receive the University Teacher Training Scholarship awarded by the Ministry of Universities.

April

- IQS joins Tech Barcelona to strengthen technological entrepreneurship.
- Launch of IQS Webinars for secondary school baccalaureate students.
- IQS organizes a conference on high-resolution mass spectrometry along with the company SCIEX.
- IQS hosts the 13th Carbohydrate Conference.

- IQS students Sara Antón and Mònica Escobar are selected for Akzo Nobel's Graduate Engineering Trainee Program.
- IQS organizes Student Week, a programme of activities aimed at its students.
- IQS organizes the session "IQS Engineers working around the world" aimed at secondary school baccalaureate students.
- IQS Biotechnology students win the "Moritz University" competition.

May

- IQS and the Borja Institute of Bioethics begin the Postgraduate Course in Environmental Ethics.
- Researchers from IQS and the Josep Carreras Leukaemia Research Institute collaborate on the haematological cancer programme.
- IQS student Francesc Canalejo receives a scholarship from the Daniel Bravo Andreu Foundation.
- Beta Gamma Sigma induction ceremony for the best IQS School of Management students.
- New edition of the IQS Conference for secondary school baccalaureate teachers.
- IQS presents the documentary "Fighting the rare" about research into rare diseases.
- IQS and Ciments Molins host a Hackathon focused on sustainable growth.
- Annual meeting of the IQS Business Foundation.
- IQS participates in the Expoquimia Fair as a founding member.

June

- The Laboratori Químic de l'Ebre wins the award for the Recognition of Historic Chemistry Sites.
- IQS hosts the Neuroscience training programme taught by iMotions.
- Awards ceremony for the 10th edition of the "There's Chemistry Here" Contest.
- IQS hosts the URL Conference to promote the 2030 Agenda.
- IQS holds the 2nd Workshop on the Chinese economic development model
- IQS organizes the 2nd UNIJES Secularity Symposium.
- Dr Rosa Nomen receives the "Academic Career" Award from the Catalan Association of Industrial Engineers.
- IQS student Wei Wen Chen is recognized at the Research Awards of the Royal Spanish Society of Chemistry.
- Graduation Ceremony for the class of 2022-23 IQS master's degree students with Ms Laia Arnal, General Director of the Knowledge Society, Transfer, and Territory, as sponsor.

July

- IQS student Francisco Javier Sánchez receives the award for the best academic record in the SusChem Young Chemical Researchers Awards.
- Dr Núria Oliva presents the scholarships from the La Caixa Foundation.
- Graduation Ceremony for the class of 2022-23 IQS bachelor's degree students with Dr Cristina Alonso, Director of Sustainability, Safety, Health, and Environment with Bayer AG, as sponsor.
- IQS organizes the Summer Camp "Experiment and learn: chemical analysis of food, water, and cosmetic products" aimed at students in the secondary school baccalaureate scientific track.
- IQS participates in the Conference "Collaborating to innovate in UNIJES: social learning and teaching innovation."

August

- During academic year 2022-23, IQS and the "La Caixa" Banking Foundation signed a collaboration agreement to enhance and consolidate the research activity of newly hired professors and researchers. This agreement supports the development of the "2020 Research Grant Programmes" project through financial contributions made by the bank.



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



14 This is IQS

OFFICIAL DEGREES



IQS STAFF

107
FULL-TIME PROFESSORS AND RESEARCHERS

92%
HOLD PHDS

87%
ARE ACCREDITED BY AQU OR ANECA

SCHOLARSHIPS

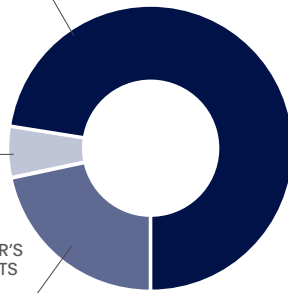
€1,228,421
FOR SCHOLARSHIPS

2,713 TOTAL STUDENTS

UNDERGRADUATES
2,278

DOCTORAL STUDENTS
109

OFFICIAL MASTER'S DEGREE STUDENTS
326



1,572
STUDENTS IN THE IQS SCHOOL OF ENGINEERING

1,141
STUDENTS IN THE IQS SCHOOL OF MANAGEMENT

ERNEST SOLVAY LIBRARY - DOCUMENTATION CENTRE

28,326
VOLUMES

337
NEW VOLUMES

25,205
LIBRARY ACCESSES

5,517
SUBSCRIPTIONS TO ELECTRONIC JOURNALS

17
DATABASE SUBSCRIPTIONS

1,261
ELECTRONIC BOOKS

40
SUBSCRIPTIONS TO PAPER JOURNALS

520
LOANS

31,446
VISITS TO THE WEBSITE

INTELLECTUAL CONTRIBUTIONS

131 PUBLICATIONS IN SCIENTIFIC JOURNALS

126 IN SCI INDEXED JOURNALS

4 BOOKS OR BOOK CHAPTERS PUBLISHED

22 DOCTORAL THESES DEFENDED

1 PATENTS APPLIED FOR

53 RESEARCH CONTRACTS WITH COMPANIES

88 COMPETITIVE RESEARCH PROJECTS

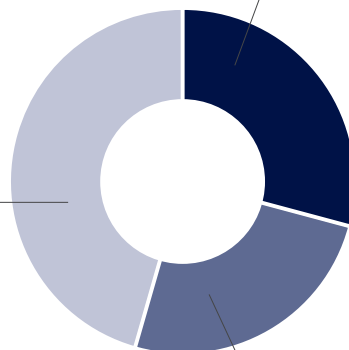
81
ASSOCIATE PROFESSORS

37
RESEARCHERS IN TRAINING

111
ADMINISTRATION AND SERVICES STAFF

COMPETITIVE RESEARCH PROJECTS

STUDENTS FROM FOREIGN UNIVERSITIES STUDYING AT IQS
295



IQS STUDENTS STUDYING ABROAD AT FOREIGN UNIVERSITIES
190

AGREEMENTS WITH FOREIGN UNIVERSITIES
166

TEACHING SPACE

TOTAL
23,868m²

5,446m²
FOR TEACHING CLASSROOMS

8,721m²
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.



ABET Engineering Accreditation Commission for the Bachelor's Degrees in Chemical Engineering and Industrial Engineering and the Master's Degrees in Chemical Engineering and Industrial Engineering.



In the European regional sphere category in the 2015 Campus of Excellence call from the Ministry of Education.



"Euromaster" Accreditation granted by ASIIN to the Master's Degree in Analytical Chemistry and the Master's Degree in Pharmaceutical Chemistry.



Institutional accreditation for the IQS School of Engineering and the IQS School of Management recognizing compliance with the internal quality assurance system of both schools.

RANKINGS



Top 50 worldwide for the IQS Master in Global Entrepreneurial Management and first worldwide in the *International Course Experience* category.



1st Catalan private university in "Management" and in the Top 100 worldwide in "Business Administration."



Top 100 in Europe (59th place), 5th best university in the Spain, and 4th in the university system of Catalonia.



1st Catalan private university, 4th in the Catalan university system, and 7th in Spain.



- 6th university in Spain and in the Top 100 worldwide in the field of *Business & Management*.
- Bachelor's Degree in Tourism and Hospitality Management in 2nd place in Spain in the field of *Hospitality and Leisure Management*.
- Top 100 Master in Global Entrepreneurial Management and Master in International Marketing in a Digital Environment according to the QS Business Masters Ranking.



Master in Global Entrepreneurial Management, Master in Bioengineering, and Master in International Marketing in a Digital Environment in the "Top 5" in Spain.



5th Catalan university and Top 10 in Spain for the IQS Bachelor's Degrees in Chemistry, Chemical Engineering, and Industrial Engineering with the highest score in the success rate of its graduates.



Recognition of the five Master's Degrees at the IQS School of Management in the Best Masters Ranking.



1st in the group for best teaching universities and 4th in the group for universities with the highest performance in Spain.



1st private Catalan university in the World University Ranking, Teaching Ranking, and Research Ranking.

HONOUR SOCIETIES



Governing bodies

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 on 29 January and 7 April 2020) establishes the Board of Directors as the advisory body to University Administration and the coordinator of its functional areas.

In academic year 2022-23, 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 Managing Director
- Mr Carlos Bel López, IQS Director of People & Organization
- 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, Associate Director of IQS
- Dr José Javier Molins Vara, IQS Registrar
- Dr Oriol Quintana Rubio, IQS Identity and Mission Manager
- Dr Marta Tena León, Director of IQS Communications and Corporate Marketing
- Dr Núria Vallmitjana Palau, Director of IQS Tech Transfer



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Academic offering

OFFICIAL DEGREES FOR ACADEMIC YEAR 2024-2025

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)
- Tourism and Hospitality Management (with Dual International Degrees, entirely in 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
- Tourism and Hospitality Management and Marketing

MASTER'S DEGREES

- Analytical Chemistry
- Pharmaceutical Chemistry (entirely in English)
- Materials Science and Engineering
- Industrial Engineering
- Chemical Engineering (entirely in English)
- Bioengineering (entirely in English)
- Biopharmaceutical Business (*) (entirely in English)
- Global Entrepreneurial Management (entirely in English)
- International Marketing in a Digital Environment / International Marketing & Sales Management (entirely in English)
- Auditing and Management Control
- Wealth and Financial Management
- Industrial Business Management (entirely in English)
- Leading Hospitality Innovation (entirely in English)
- Circular Economy (*) (entirely in English)
- Cosmetics and Fragrances (*)

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 Industrial Engineering and Master's Degree in Materials Science and Engineering
- 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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