College of Engineering

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE

College of Engineering

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE


ITALIA

CONTENTS

Background

From its foundation, in 1888 the Pontificia Universidad Católica de Chile College of Engineering has consolidated as a prestigious institution at a national and Latin American level in teaching and research of Engineering Science. Its nine departments, in the areas of Construction and Management, Structures and Geotechnics, Hydraulics and Environment, Transportation, Industrial and Systems Engineering, Mechanics and Metallurgy, Chemistry and Bioprocess, Electrical Engineering and Computer Science and its centers, Mining Engineering and Environmental Engineering, enjoy an excellent reputation, placing them in a leading position in their respective fields.
The College has a permanent staff of over 100 full-time professors, of which 80% have obtained doctoral degrees from the most prestigious universities worldwide. In 2003 it's teaching programs were granted Substantial Equivalence by the Accreditation Board of Engineering and Technology (ABET, www.abet.org).




Objectives

The mission of the College of Engineering is to:

1. Provide excellent education at an international level within the wide field of engineering and to serve as support to university teaching and research at universities, research centers and innovative companies;
2. Perform excellent research at an international level, linked –through public and private institutions– to the country's scientific, technological and social development;
3. Offer specialized engineering services –consulting, training, laboratory services and other extension activities– to people and public or private institutions, benefiting society and the career.

Our Students

The College of Engineering is preferred by the best High School students of the country: every year, it enrolls the largest percentage of students among the best 1000 high-school graduates, of a total of 250,000, making up the most select group in the country pursuing higher education. The education quality of its graduates is highly appreciated in the national and international market and they rapidly reach directive positions in leading companies.

Student Life

Number of students enrolled every year including special admissions and baccalaureate diploma	500
Total number of undergraduate students enrolled in the institution	3,000 aprox.
Total number of graduate students	500 aprox.

UNDERGRADUATE PROGRAMS

Graduation and Professional Licensure

Licenciatura Degree

Engineering Sciences

Professional Licensure and Areas of Specialization

Civil Engineering
Construction management
Environmental
Hydraulic
Mining Structural
Transportation
Geotechnical
Design and building of structures

Industrial Engineering
Bioprocess
Chemical
Computational
Information
Technology Electrical
Environmental
Hydraulic
Mathematical
Mechanical
Mining
Transportation

Mechanical Engineering
Electrical Engineering
Computational Engineering
Biotechnology Engineering

The College of Engineering has double degree agreements with The École Polytechnique and École Centrale (France), Politecnico di Torino and Politecnico di Milano (Italy). We also have academic exchange programs with universities in Europe, USA, Canada and Australia.

Degree And Licensure Requirements

Licenciatura Degree (4 years)	420 credits*
Basic science courses	170 cr.
Advanced courses in area of specialization	170 cr.
Electives in other areas	60 cr.
Theology	10 cr.
Ethics and anthropology	10 cr.

Professional Licensure (6 years)	570 credits
Licenciatura degree courses	420 cr.
Licensure courses in area of specialization	100 cr.
Advanced topics electives	50 cr.

* 10 credits are equivalent to 6 ECTS credits.
Curriculum courses, degree requirements, graduation and professional degree in www.puc.cl/dara/registro/curriculum/icivil.pdf


EDIFICIO DECANO RAUL BEVES
ESCUELA DE INGENIERIA


ESCUELA DE INGENIERIA

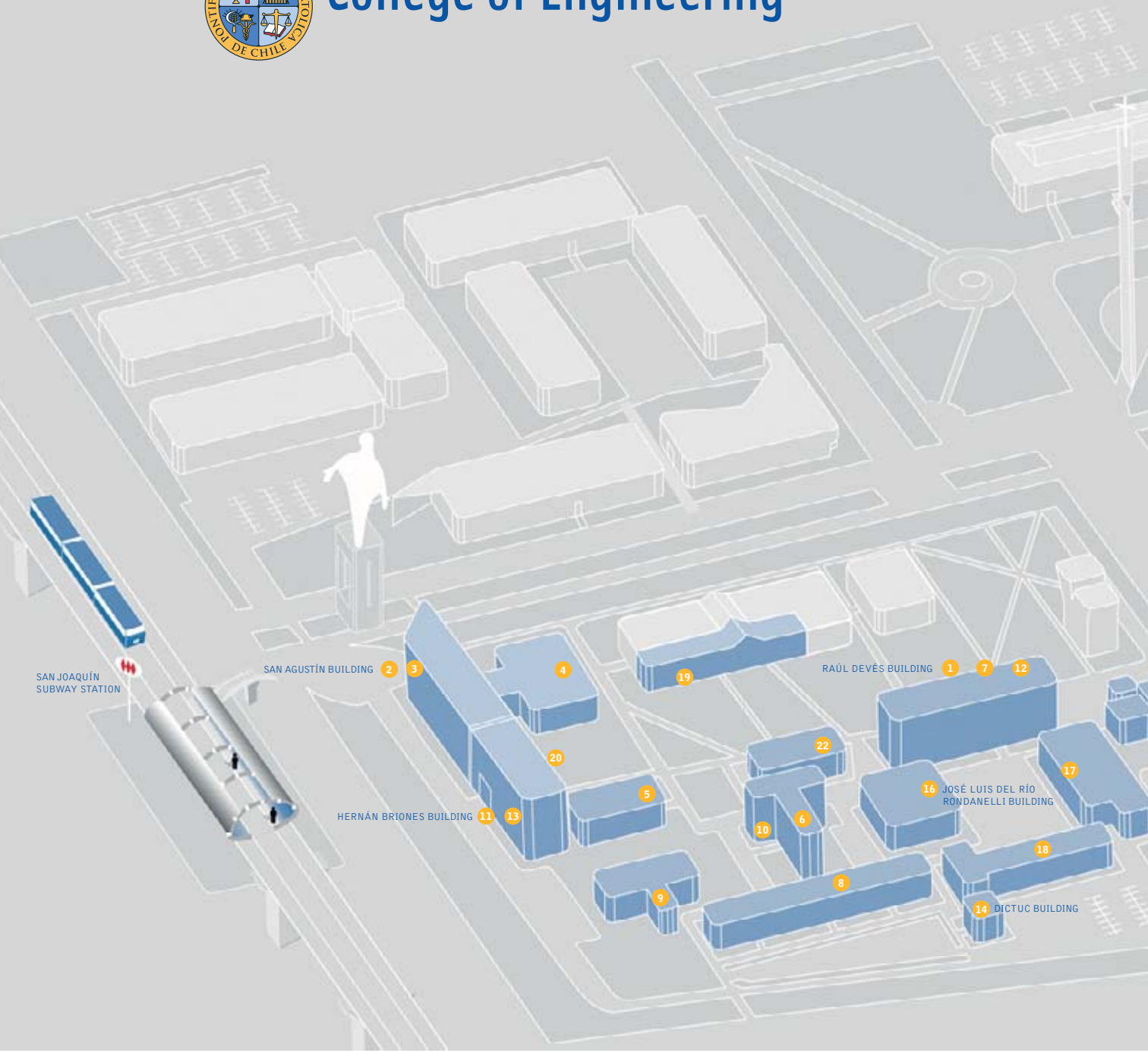
Infrastructure

In many areas, research equipment and facilities are as modern and complete as those of institutions in developed countries. In addition, the Office of Scientific and Technological Research (DICTUC), has made it possible for the College to contribute to the national technological development, establishing business relationships with the most important public and private companies of the country.

Situated on San Joaquín Campus, the College of Engineering shares, together with other university schools, modern classrooms and computer facilities, advanced laboratories, a complete and updated library, a chapel, excellent sports field and cafeterias. It also has specialized departmental libraries and is connected via Internet to most of the research centers and university libraries in the world.

For these reasons, the College of Engineering of the Pontificia Universidad Católica de Chile is an important development center for Engineering in the country and the region.

College of Engineering



MAP INDICATORS

1. College of Engineering Direction
2. Department of Construction Engineering and Management
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4. Department of Structural and Geotechnical Engineering
5. Department of Hydraulic and Environmental Engineering
6. Department of Transportation Engineering
7. Department of Industrial and Systems Engineering
8. Department of Mechanical and Metallurgical Engineering
9. Department of Chemical and Bioprocesses Engineering
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14. Dictuc
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17. Classrooms A
18. Classrooms B
19. Classrooms E
20. Classrooms H
21. Multiple Using Facility
22. Cafeterias


DECANO RAUL DEVES

Graduate Programs

www.ing.puc.cl/postgrado

The Graduate Program at the College of Engineering began in 1983 with the first admission process for the Master of Science degree. Later, in September 1992, the Doctorate Program initiated its activities. Finally, in 2003, the Master in Engineering was created. Today, the graduate program has become the largest in Chile in the field of technology, with a cohort of over 400 students.
Recently, additional specialized programs have been designed, responding to industry needs for continuous education of their professionals.

Exchange Programs

The research carried out by the professors is another relevant aspect of the College of Engineering. This activity has developed cooperation links with important universities and research institutes.
Examples of these cooperation links are the exchange programs with foreign universities such as Carnegie Mellon, California Davis, Université Catholique de Louvain, Institut National Agronomique Paris-Grignon and L' École Polytechnique, among others. In these programs, graduate students between three and twelve months, work with leading groups in their respective fields. Furthermore, the College has established double degree agreements with French and Italian universities. This relationship has improved the openness of the graduate programs; a very desirable characteristic in today's scientific community.

The College of Engineering offers graduate degrees in the following specialization areas:

Doctor of Philosophy

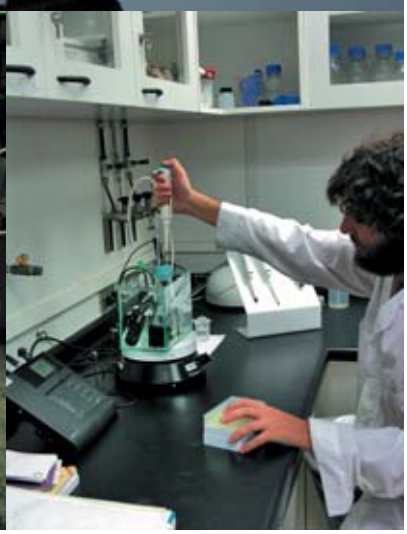
- Civil Engineering
- Civil Industrial Engineering
- Electrical Engineering
- Chemical and Bioprocess Engineering
- Computer Science
- Transportation Engineering and Logistics

Master Degrees

- Master in Engineering Sciences
- Master of Engineering
- Master of Information Technology and Management
- Master of Industrial Engineering
- Master of Structural Engineering and Geotechnics
- Master of Construction Management

Research

There are around a hundred professors in the program, all of them with postgraduate studies and over 80% with a PhD. degree, granted by the most prestigious universities around the globe.
They also have the highest per capita scientific productivity among their Latin-American peers, in terms of publications in technology-related journals. They also develop engineering proyects financed by the government and other institutions.
For recent publications:
http://noticias.ingenieriauc.cl



Departments and Centers

Department of Construction Engineering and Management

(www.ing.puc.cl/icc)

The field of this Department is to materialize construction projects through the study, evaluation, planning, administration and control of the tasks required in the construction process.
Currently we need a new type of professional, more open to enterprising and innovative changes, with academic excellence and constantly supported by new technologies. To achieve this goal, the Department provides its students with the necessary conditions to encourage them to fully develop their technical and human capabilities, and search for constant improvement.

Research and Specialization areas:

The Department has a vast experience in four main lines:

- Construction Materials, which studies constitution, behavior, technology, and application of materials used in Civil Engineering, such as cement concrete, asphalt and asphalt mixtures, wood and steel.
- Technology and Housing, which incorporates technological requirements oriented to improve efficiency, productivity and quality of different types of construction works and to improve housing inhabitability. It also includes themes related to application of information technologies to construction and sustainable construction.
- Road Engineering, focused on the design, construction, management of pavements both rigid and flexible, as well as their behavior and rehabilitation.
- Construction Management, including productivity, quality and quality management, production management, project management, enterprise administration, management-oriented information technologies and others.

Department of Structural and Geotechnical Engineering

(www.ing.puc.cl/ice)

The Department prepares the country's most skilled professionals in design, analysis, behavior and technological innovation in civil infrastructure works. The study program aims at giving students a deep understanding of fundamental concepts in the area of design and structural analysis and of geotechnical engineering so that they become familiar with most modern criteria and techniques for their future professional practice. To provide its students with advanced education, the Department has modern laboratories for Dynamic and Static Tests, Soils Mechanics and Strong Movement Seismology. These facilities provide students with complex equipment, such as a vibrating table to reproduce the action of a seismic movement on reduced-scale structures, testing equipment for seismic insulators and energy dissipaters, and cyclic triaxial cutting equipment.

Research and Specialization areas:

The Department has a modern computer infrastructure for research on dynamic simulations and seismic design. This capability allows offering outside consulting in highly-complex technological problems, and in conjunction with the labs, certification and quality services, development of new materials, and behavior of real elements and structures.

Main areas of specialization:

- Theory and Computer Analysis of Structures, with research lines in analytic modeling, computer methods for analysis and structural design, behavior study of buildings in case of earthquakes and simplified analysis methods.
- Structural Design: Behavior modeling and design of steel structure elements, reinforced concrete and masonry. Revision and critical analysis of different code designs is also considered.
- Structural Dynamics: Deterministic and probabilistic analysis of structural systems subjected to dynamic loads. Development of methods for response calculation and for specific aspects of behaviors of structural systems.
- Seismic Engineering: Behavior and design of elements and structures subjected to seismic loads. Studies of strong movement and measured responses, studies of real movements of instrumented buildings, seismic insulation and energy dissipation.
- Experimental Analysis, based on experimental studies on the static and dynamic behavior of elements, structures and mechanic systems in general.
- Geotechnical Engineering: Dynamic properties of soils and rocks, risk evaluation of landslides and seismic design of earth structures, dams, and tailings.

Department of Hydraulic and Environmental Engineering

(www.ing.puc.cl/ich)

The study program of this Department trains civil engineers to deal with problems of planning, design and operation of hydraulic systems and environmental control. The study program is focused on encouraging student's creativeness, enterprising spirit, public service vocation, and need for continuous training through personal study and multidisciplinary team work. The Department also seeks to prepare graduate students, and do research dealing with emerging themes that contribute to the development of the country and to the solution of national problems in the field of Hydraulic and Environmental Engineering.

Research and Specialization areas:

The action of the Department is based on three areas:

- Experimental Hydraulics and Fluid Mechanics, specially oriented to study the flow of solid-liquid mixtures, fluvial hydraulics and erosion and sedimentation processes in natural waterways, design of structures and hydraulic works, urban hydraulics and rainwater management techniques.
- Hydrology and Water Resources focused on mathematical modeling of the rain-runoff process and hydrologic design, probabilistic hydrology and regional analysis of floods with scarce information, stochastic hydrology and drought studies, hydro geological studies of groundwater resources, and flow models and transport of solutes in groundwater.
- Environmental Engineering and Contamination, covering aspects regarding treatment of wastewater, removal of contaminants, modeling movement of contaminants in the environment, transportation models for chemicals in soils, and development of hydrological and hydro geological studies.

Department of Transportation Engineering

(www.ing.puc.cl/ict)

Its objective is to promote and perform teaching, research and extension, in the scope of its discipline and logistics, as well as in the interdisciplinary fields involved. In order to meet the professional requirements, the Department offers, at the undergraduate level, civil and industrial specialties. The first program implies preparing specialists in planning, design, maintenance, construction and operation of transportation infrastructure works. The second program, seeks to prepare professionals capable of planning, designing and managing transportation systems, for both people and load.

Research and Specialization areas:

The research activities are oriented to the development of methodologies and advanced models dealing with forecasting demand for transportation services, planning and operation of transport networks, traffic management, logistics and assessment of transport outsourcing services. The Department has working relationships with professors from prominent North American and European Universities and has performed important joint research programs with international funding, and FONDECYT-funded projects. The Department has a solid international prestige and considered to be the best Ibero-American Department in this field.

The specialization of the Department is based on four areas:

- Economics and Transport Management, covering Transport Market Management, Dynamic Investment Models in Transportation Systems, Preference Models and Simulation Models for Transport Planning.
- Planning and Transportation Systems Design, dealing with Public Transportation System Design, Dynamic Network Design, Influence of Public Transportation in Traffic Modeling, and Modeling Calibration of Traffic Simulation Models.
- Load Transportation and Logistics, which analyses goods transportation systems at an urban, interurban and international level. Optimization of logistic operations for manufacturing companies and the effects of moving hazardous loads are also studied.
- Transportation and Externalities, covering the harmful effects of transportation on the environment and the accidents caused by the movement of passengers and loads on a road network. In particular, advanced preference models are considered to estimate the willingness to payment for reducing these externalities.

Department of Industrial and Systems Engineering

(www.ing.puc.cl/ics)

The Department of Industrial and Systems Engineering is an academic unit dealing with innovation and management theory and practice. Prepares Civil Engineers, Civil Industrial Engineers, Masters of Science, Masters of Science in Engineering and Doctorates in Science from Pontificia Universidad Católica de Chile.

Teaching at the Department of Industrial and Systems Engineering is oriented to provide a high-quality preparation in management, mainly focused on the areas of operations research, economics and administration.

The Department contributes to prepare professionals with the seal of Pontificia Universidad Católica de Chile, knowledgeable in their profession, change agents and leaders in a global world, inspired in Christian principles, motivated for working in their profession, and willing to live a moral dimension at the service of people and society.

Research and Specialization areas:

The Department does research and extension in various management areas, such as, production management and logistics, industrial economics and regulation policies, economics and environmental policy, company finance, equilibrium in capital markets, management accounting, strategic planning, marketing, technological innovation management, organizational culture and enterprise behavior, among others. There are three large research areas: Operations Management and Operations Research; Economics and Finance, and Company Organization and Management. The specific themes detailed below, sometimes cover more than one area.

- Operations Management and Operations Research covers, mathematical programming, stochastic models, decision-making support systems, production management, logistics and price policies.
- The Economics and Finance area, covers themes such as Management Accounting, Industrial Economics, Economics and Environmental Policy, Project Evaluation, Company Finance and Regulation.
- Finally, the Company Organization and Management area covers themes, such as Organizational Behavior, Management Control, Competitive Strategy, Strategic Planning, Marketing and Management Support Systems.

Department of Mechanical and Metallurgical Engineering

(www.ing.puc.cl/icm)

It trains professionals to build, assess and develop Engineering projects in the areas of mechanical, manufacturing and metallurgical industries.
The Department offers two graduation alternatives: Civil Industrial Engineer with a Diploma in Mechanical Engineering and Civil Mechanical Engineer. Both programs have common basic courses, focused on three main thematic areas: Manufacturing and Materials, Thermic Systems, Design and Automation.

Research and Specialization areas:

In these three areas or through a combination of them, students can also obtain a Master or Doctor in Engineering Sciences. At present, the Department maintains the following research lines:

- Manufacturing and Materials: studies in advanced mechanized smelting processes, consisting of plastic deformation, thermic treatment, rapid prototyping, metrology.
- Thermal Systems: computer-based combustion modeling for design of more efficient and less contaminating equipment. Compounds Synthesis through combustion processes. Copper concentrate combustion. Fire protection engineering.
- Design and Automation: computer-based application techniques for design, representation, calculation and fabrication, through numerous methods, for mechanisms and devices, in order to obtain competitive products. Emphasis is on computer-controlled development of intelligent products and systems.

Department of Chemical and Bioprocesses Engineering

(www.ing.puc.cl/iiq)

This Department prepares engineers to obtain the Civil Industrial Engineer degree, with Diplomas in Chemical Engineering and Bioprocess Engineering, and, in conjunction with the Faculty of Biological Science, the Civil Biotechnology Engineering degree. The professionals graduated from the different Diploma Programs in Civil Industrial Engineering are trained to work in prestigious public and private companies and institutions. Their simultaneous preparation in management and technology allows them to make adequate and opportune decisions, resulting in an efficient use of resources in organizations where human and material resources are combined, as well as in technological, economic, social and environmental aspects.

The courses in the area of Chemical Engineering are oriented to complete the basic preparation in aspects relating to design, control and operation of productive processes where physical and chemical transformations of materials occur. The focus is on areas of transfer processes (heat, mass and momentum), kinetic phenomena and process control. The students of this specialty are prepared to intervene in the design and management of productive processes in different types of industries, such as the chemical and food industry and in the exploitation of natural resources: mining, forestry, etc.

Research and Specialization areas:

The courses in the area of Bioprocess Engineering prepare professionals with a profile that benefits the application of Chemical Engineering principles in industrial fermentations, food processing and other industries operating with biological materials, focused on teaching the students in biochemistry, fluids transport (Unit Operations I), heat transfer (Unit Operations II). The students can specialize in Foods or in Biotechnology. The graduate of this Diploma is prepared to intervene in the design and management of productive processes in different industries related to renewable natural resources, foods and biotechnology, among others. Another important fact is the creation of leading-edge companies resulting from research being developed in this area.

Department of Electrical Engineering

(www.ing.puc.cl/iee)

The main objective of this Department is to deliver solid knowledge in different areas of electrical engineering. For this purpose, it performs different research and extension activities. To cover its students' wide interests efficiently, the Department grants two titles: Civil Electrical Engineer and Civil Industrial Engineer with a Diploma in Electricity. The first program allows students to study technological matters relating to project execution, as well as design, development, operation and maintenance of systems and electric and electronic devices. The second program, is oriented to cover matters regarding company management and economic systems from the public and private sector, relating to electricity and electronics. The common curriculum of both specialties prepares competent professionals knowledgeable in the diverse electric engineering sciences. These include electric machinery, electric power systems, electronics, telecommunications, automatic control and digital systems. Taking into account its students' future work, the Department performs research and extension activities in close collaboration with production and distribution companies.

Research and Specialization areas:

Topics include economical and safe operation of electric and electronic power systems, electric traction, data transmission, optimal location and simulation of communications systems, automation and process control, biomedical engineering and digital processing of signals and images. The Department has the following research areas:

- Power engineering, which studies the economical operation, security service and regulation of electric power systems, design of distribution systems, active power filters, electric vehicles and last-generation static converters, among others.
- Electronic and Communications Engineering, which studies voice and data communications systems, modeling, analysis and simulation of digital communication systems, planning and optimal location of resources in communication and electronics networks applied to the industry.
- Industrial automatics, which is in charge of automation, process control, and acquisition and digital processing of signals. It has a modern and exclusive nuclear magnetic resonance lab.

Department of Computer Science

(www.ing.puc.cl/dcc)

Since its creation in 1983, the Department of Computer Science has carried out effective research and teaching in its undergraduate, graduate, post certificate study programs and continuous training, advisory and consulting services, and high-quality software development programs. To comply with this vast work area, the Department provides both basic and advanced teaching in Computer Science, which allows preparing highly-skilled professionals capable of developing high-level computer engineering in different areas. With this objective, it offers majors in Civil Industrial Engineering with a specialization in Computer Science and Civil Computer Engineering. The development of research in specific areas of Computer Engineering is supported on Master and Doctoral programs in Engineering Science with a specialization in Computer Science.

Research and Specialization areas:

The specialization in Computer Science is performed in different areas:

- Systems software: various themes relating to distributed systems, operating systems, database systems and computer systems evaluation are developed.
- Software Engineering: Research is focused on methods and tools that allow building high-quality and low-cost software. As a specific case, research is performed on development and architecture of Web applications and on development processes specially adapted to these scenarios.
- Formal Logics and Artificial Intelligence: The logical fundamentals of the problem relating to knowledge representation and its application to different problems relating to artificial intelligence are investigated, as well as, techniques and applications regarding computer learning and robotics.
- Educational Informatics and Collaborative Systems: Research is focused on the use of telecommunications, multimedia, wireless technologies and mobile platform as teaching support technology, with emphasis on elemental and high school education.
- Information Technologies: Ways of efficient application of computing to companies are researched. Research is focused on: eBusiness, technological undertakings, information systems design (ERPs, Datawarehouses, Data mining) and management of technological projects.
- The Department offers extension services based on continuous training in computing and informatics and development of high-technical level software through agreements with companies. It also performs advisory services specialized in different areas, such as expert systems, software engineering, databases, data communication and evaluation of computer system performance.

Mining Center
(www.ing.puc.cl/imm)

The mission of the Mining Center is to provide an integral preparation in Management and Mining Technologies, being internationally recognized for the outstanding performance of its professionals, and for the impact of its investigation and extension activities in the mining industry in Latin America.

Research and Specialization:

The Mining Center has the following research lines:

- Impact of Metals in Health and Environment.
- Economics of Minerals.
- Maintenance Management and Reliability of Mining Equipment.
- Metallurgy and Mineral Processes.
- Mathematic Modeling Applied to Mining.

Environmental Engineering Center

(www.ing.puc.cl/esp/infacademica/deptosycentros/cma.html)

The Environmental Engineering Center is a research and extension unit. Its main mission is to coordinate the activities of the College of Engineering in the environmental field, strengthening investigation in internationally relevant themes, coordinating high-impact research and development projects in the country and in the region, coordinating participation in overseas service projects, and becoming an instance for discussion and exchange inside and outside of the University.

Research and Specialization:

The Environmental Engineering Center has the following research lines:

- Air Quality
- Aquatic Environment Quality
- Land Environment and Solid Remainder
- Environmental Policy and Management

Other Centers

College of Engineering

CENTER FOR PRODUCTION MANAGEMENT EXCELLENCE (GEPUC) (www.gepuc.cl)

The Center develops systematic research actions and improvement implementation for companies. Among its objectives are: to develop, implement and communicate knowledge on management and production technologies, perform training, research and development activities; and achieve cultural changes in organizations that allow for the introduction of improvements and innovations.

CENTER FOR WOOD INNOVATION AND DEVELOPMENT

This center is a joint endeavour of the Faculty of Architecture, Design and Urban Studies, the Faculty of Agronomy and Forestry Engineering and the Wood Corporation.
The objective of the Center is to promote research in the use of wood in the construction industry; establish the value of quality, variety, aesthetic, structural, constructive qualities and environmental preservation of this material; promote projects for the technological and architectural development of wood, and diffuse and foster the adequate use of it.

RESEARCH CENTER FOR MAGNETIC RESONANCE (www.mri.cl)

In conjunction with the Faculty of Medicine

The mission of the Research Center for Magnetic Resonance (MRI Chile) is to develop this discipline by means of research, education and advisory services in technology. Research is focused on reducing acquisition times and improving image quality. Education includes graduate degree programs, such as Master's, Doctorate and Post-doctorate, and preparation of medical radiologists and medical technologists.

INTEGRATED CENTER FOR DESIGN AND ENGINEERING

In conjunction with the Faculty of Architecture, Design and Urban Studies

The Integrated Center for Design and Engineering (CIDI) at the Faculty of Engineering and Architecture, Design and Urban Studies, was established through a cooperative agreement in the area of product development.
The main objectives of the CIDI are to generate a research instance around the development of product design; perform updated technical and professional training, through workshops, courses, seminars, post-degrees and other adequate forms; and carry out extension activities oriented to the development of the industry.

Technology Transfer-Dictuc

(www.dictuc.cl)

DICTUC is an office of Pontificia Universidad Católica de Chile that links the university with manufacturing and services industries and with the public sector in Chile. The main activities performed by DICTUC include continuing education and training; entrepreneurial; quality certification and laboratory evaluations tests; and engineering consulting.

Continuing Education

DICTUC offers courses and certificate programs in both on-line and classroom formats. These programs present wide opportunities, covering fields such as strategic planning, business administration, operational management, financial planning and IT management, among others. In recent years, DICTUC has had an average of more than 17.000 students per year in its different programs.

Entrepreneurial

Through GeneraUC, its entrepreneurial and innovation division, DICTUC enhances the creation of new businesses that include technological innovations. So far, DICTUC has helped to develop more than 14 industrial entrepreneurial. Some of them are allocated in DICTUC while others have become separated companies.

Quality Certification and Laboratory Evaluations

DICTUC has high specialized staff and facilities for laboratory activities in housing and building technology; seismic risk; rock mechanics; sediment transport; traffic engineering; heat transfer; fire protection; food, bioprocesses; industrial microbiology analysis; communications; electronics; electrochemical and mechanical manufacturing processes. In 2005, DICTUC gave up more than 76.000 technical certificates to industries as a result of its quality certification and laboratory evaluations.

Engineering Consulting

The College of Engineering has 102 full-time faculty members. Among them, 98% hold Ph.D. or Master of Science degrees from leading U.S. and European universities. As a consequence, DICTUC is able to give highly specialized consulting services to public and private institutions in the main research areas of the College of Engineering. These services include research and project development as well as technical forensics. Throughout almost 70 years of history, DICTUC has become a nationwide prestigious and reliable institution for public and private fields, due to its high technical standards and also to its seriousness and commitment to the continuous development of Chilean society.

Alumni Foundation-Fiuc

(www.fiuc.cl)

FIUC Alumni Foundation is a private non-profit institution that groups together graduates from the School of Engineering of the Pontificia Universidad Católica de Chile. Since 1952, its aim has been assisting academic and scientific work developed by the College by contributing funds to specific projects. A priority of the Foundation is to provide financial support to meritorious students through scholarships. Another objective of the Foundation is to foster feelings of fellowship among engineers of the Pontificia Universidad Católica de Chile, in order to preserve their links with their Alma Mater.

The FIUC was the first organization of professionals of Pontificia Universidad Católica de Chile, so it is an inspiration and a model for similar institutions of other faculties. Since its beginning, FIUC has contributed to the solution of different needs of the College of Engineering, particularly, during a period when the university just received private funds. Currently, the Foundation has a tight link with the College of Engineering through the Consulting Committee FIUC–College and by giving support to different activities. FIUC offers its associates job-search services, and promotes alternatives to maintain the network. It organizes activities in different areas, like seminars, forums, and by the end of each year, a Fellowship Annual Dinner, which has become a traditional activity. During that day, they can keep up with the latest news and share their professional and personal activities.

San Agustín Foundation-FSA

(www.fundacionsanagustin.cl)

San Agustín Foundation was created in 1987 by the Honorable Superior Council of the Pontificia Universidad Católica de Chile as DICTUC Foundation of the College of Engineering. It is managed by professors and graduates from the College of Engineering UC. Its initial patrimony were the profits generated and collected during the development of its extension activity.

In 2001, it became San Agustín Foundation, in honor of the Patron Saint of the College of Engineering. Its mission is "to foment the academic activities of the College of Engineering, in order to contribute to make the college an excellent international Scientific and Technological center and an active agent of social and economic development of Chile".

With a foundational support of USD $2,8 millions and due to an effective administration of these funds, the Foundation has been able to increase its patrimony to 6 millions dollars during 2005.

Since its beginnings, it has given an accumulated contribution of 4,5 million dollars to the development of the College of Engineering , helping to develop infrastructure work, equipment, and academic training by granting scholarships to professors to have graduate studies in foreign universities, in order that they get Ph degree.

Due to the increasing budget requirements of the College of Engineering, the foundation started in 2002 a Fund Raise campaign focus mainly to cover the infrastructure of the College of Engineering.


EDIFICIO DECANO RAUL DEVES
ESCUELA DE INGENIERIA

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- Interest areas: Technology for Construction materials.

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Department of Structural and Geotechnical Engineering

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