

ENGINEERING-RELATED UNDERGRADUATE PROGRAMS OFFERED BY UABC

MAIN SECTORS	PARTNERSHIPS	CAMPUS
AEROSPACE ENGINEERING* **		
<ul style="list-style-type: none"> Aerospace Electrochemistry Circular economy Aeronautics 	<ul style="list-style-type: none"> Medical devices Sustainable mobility 	UCSD, QMUL, Montant Universität Leoben, ENIT, INSA Toulouse, CAVILAM, SDSU, Turbotec, Mexican Space Agency, Baja Cluster Aeroespacial, Infineon, NASA, UCSD, Samara University (Rusia); Universidad Carlos III (Spain)
BIOENGINEERING* **		
<ul style="list-style-type: none"> Biomedical industry Environmental sector Medical devices 	<ul style="list-style-type: none"> Biotech Food industry 	QMUL, UCSD, CAVILAM, SDSU, Baja California Medical Device Cluster
CHEMICAL ENGINEERING*		
<ul style="list-style-type: none"> Medical devices 		SDSU, UNAM
CIVIL ENGINEERING* **		
<ul style="list-style-type: none"> Public facilities Sustainable mobility Water resource Sustainability 	<ul style="list-style-type: none"> Materials technology Urban planning 	UCSD, ACI, QMUL, CAVILAM, SDSU, National Seismological Service-UNAM Geophysics Institute (México)
COMPUTER ENGINEERING* **		
<ul style="list-style-type: none"> Software development Hardware and firmware development Network management and security informatics 	<ul style="list-style-type: none"> Process automation systems Electronics Biotech Mobility 	UCSD, QMUL, SDSU, Dartmouth College (USA), Santa María Catholic University (Perú), Redmisoft
COMPUTING SYSTEMS*		
<ul style="list-style-type: none"> Information systems Aeronautics Medical devices 		Mexicali
ELECTRICAL ENGINEERING*		
<ul style="list-style-type: none"> Semiconductors Sustainable mobility Electric equipment 		UCSD, QMUL, SDSU
ELECTRONIC ENGINEERING* **		
<ul style="list-style-type: none"> Electronics Medical products Semiconductors 	<ul style="list-style-type: none"> Telecommunications Virtual instrumentation 	UCSD, University of Leoben, Hochschule Mainz University of Applied Sciences, Université de Haute Alsace Ecole Nationale Supérieure d' Ingénierus Sud Alsace, QMUL, SDSU, MexFITec, DAAD
INDUSTRIAL ENGINEERING*		
<ul style="list-style-type: none"> Automotive and aerospace Chemical Textiles Food and metal industries Medical devices 	<ul style="list-style-type: none"> Machinery, equipment, and electrical appliances manufacturing Sustainability Ergonomics 	UCSD, QMUL, Catalunya Polytechnic University, CAVILAM, SDSU, Arizona State University (USA), Baja California Medical Device Cluster
MECATRONICS ENGINEERING*		
<ul style="list-style-type: none"> Electronic Mechanical 		UCSD, QMUL, SDSU, Université Claude Bernard Lyon 1
MECHANICAL ENGINEERING*		
<ul style="list-style-type: none"> Industrial Automotive Energy Aerospace 	<ul style="list-style-type: none"> Metallurgy Manufacturing Metal-mechanical 	UCSD, QMUL, SDSU, Extremadura University (Spain), Montanuniversität Leoben (Austria), UCSD, Pascual Bravo Technological Institute (Medellín Colombia)
NANOTECHNOLOGY ENGINEERING*		
<ul style="list-style-type: none"> Materials Biotechnology 		University of California at Irvine (USA)
RENEWABLE ENERGIES ENGINEERING*		
<ul style="list-style-type: none"> Renewable energies Energy efficiency Sustainability 		UCSD, QMUL, SDSU, CAVILAM, Montanuniversität Leoben (Austria), Materials Research Institute (UNAM, México), Renewable Energies Institute (UNAM, México)
SOFTWARE AND EMERGING TECHNOLOGIES ENGINEERING (new program)		
<ul style="list-style-type: none"> Software Electronics 	<ul style="list-style-type: none"> Biotech Mobility 	Tijuana Ensenada

Posgraduate programs in engineering

The Engineering Institute, a research oriented unit, offers Master's and Ph.D. programs in Science and Engineering, which have established a solid relationship with the semiconductors and electronics industry. At the Institute, researchers are leading projects in developing new products, innovation in start-up process lines, and developing new spin-off companies. They have also helped establish research and development departments shared with the global impact industry, have created bi-national laboratories with foreign companies and universities, and they have also accomplished disruptive innovation that led to the development of new nanotechnology-based drugs for cancer.

Program	Main sectors	Partnerships	Campus
Master in Sciences and Engineering	<ul style="list-style-type: none"> Semiconductors Electronics Government Civil Society Organizations Environmental Agencies 	Flinders University (Australia); Arizona State University, University of Arizona, San Diego State University, U.S. Geological Survey (USA); University of London, Nanosciences Institute (Aragó, Spain), Institut National de la Recherche Scientifique de Québec (Canada), National Centre for Groundwater Research and Training (Australia)	Mexicali
Doctorate in Sciences and Engineering			

PARTNERSHIPS:



ACREDITATIONS:



QMUL: Queen Mary University of London; UCSD: University of California San Diego; SDSU: San Diego State University; CAVILAM: Centre d'Approches Vivantes des Langues et des Médias; INSA Toulouse: Institut National des Sciences Appliquées de Toulouse; ENIT: Institut National des Sciences Appliquées de Metz; AEM: Agencia Especial Mexicana; BAJA AEROSPACE CLUSTER: Baja California Aerospace Cluster; Infineon: Infineon Technologies AG; NASA: National Aeronautics and Space Administration; SKYWORKS: Skyworks Solutions Inc.; BOSCH: Robert Bosch GmbH; Honeywell: Honeywell International Inc.; Garrett: Garrett Motion; Collins Aerospace: Collins Aerospace Company.

* Accredited nationally either by the Engineering Teaching Accreditation Council (CACEI) or the Higher Education Inter-Institutional Evaluation Committees (CIEES)

** EUR-ACE seal, granted by Agencia Nacional de Evaluación de la Calidad y Acreditación, from Spain