

INFORMACIÓN PARA EMPRESAS IAESTE ESPAÑA 2020-2021

Comité Español para el Intercambio de Estudiantes Técnicos

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IAESTE
SPAIN

**Work.
Experience.
Discover.**



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Quiénes somos

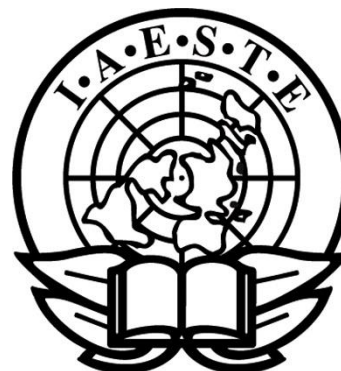
La Asociación para el Intercambio de Estudiantes Técnicos, (*International Association for the Exchange of Students for Technical Experience*, IAESTE) es una organización no gubernamental, independiente y apolítica, que toma forma como confederación internacional de Comités Nacionales y Locales que representan a los mundos empresarial, académico y estudiantil.

La Asociación fue fundada en el año 1.948 en el *Imperial College* de Londres, por iniciativa del *Imperial College Vacation Work Committee*, con los siguientes objetivos:

Ofrecer a los estudiantes universitarios la posibilidad de adquirir experiencia técnica relacionada con sus estudios mediante la realización de prácticas en instituciones y empresas extranjeras.

Promover la comprensión internacional y buena voluntad entre los estudiantes de todas las naciones sin importar la raza, el color, sexo o religión.

Llevar a cabo un programa de intercambio internacional para el beneficio de los estudiantes, instituciones y empresas que participen y ofrezcan prácticas



IAESTE está estrechamente relacionada y apoyada por las siguientes agencias de las Naciones Unidas:

La Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO)

El Consejo Económico y Social de la Naciones Unidas (ECOSOC)

La Organización Internacional del Trabajo (OIT)

La Organización de las Naciones Unidas para el Desarrollo Industrial (UNIDO)

La Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO)

La Comisión Económica para África de las Naciones Unidas (ECA)

Las siguientes organizaciones internacionales:

La Unión Europea

La Organización de Estados Americanos (OEA)

Así como numerosas instituciones educativas de todo el mundo, entre ellas y en lugar destacado, la Universidad Politécnica de Valencia.

Desde 1951 España ha enviado más de 10.000 estudiantes españoles a ampliar su formación académica y humana a otros países de la asociación. Hoy en día, IAESTE-ESPAÑA cuenta con 55 Centros miembros que representan a la comunidad universitaria, tanto en su rama científica como en la técnica, en toda España. Además, ocupa el tercer lugar entre todos los países de IAESTE, en número de ofertas de prácticas intercambiadas.

Durante el curso 2019-2020 y a pesar de la difícil situación creada por la pandemia, 37 estudiantes españoles disfrutaron de estancias de prácticas en países miembros de IAESTE y 36 estudiantes extranjeros vinieron a nuestro país.

Qué hacemos

IAESTE-España tiene como objetivo proporcionar a los estudiantes de grado, máster o doctorado que cursan carreras científicas y técnicas la posibilidad de **realizar prácticas en empresas e instituciones extranjeras** durante el tiempo que dura su formación en la Universidad. El alumno puede obtener convalidación de prácticas curriculares o realizar su TFG basándose en actividades realizadas en las entidades, siempre y cuando la actividad consista en un proyecto específico, esté académicamente dirigida por un profesor, reconocida por su Centro y controlada mediante la presentación de una memoria realizada por el alumno.

Para conseguir este objetivo, IAESTE dedica la mayor parte de su esfuerzo a **conseguir prácticas en empresas e instituciones españolas que puedan ser intercambiadas en régimen de reciprocidad** con los Comités extranjeros miembros de IAESTE.



Cómo lo hacemos

La actividad de IAESTE comienza en el mes de octubre, cuando se envía a todos los Centros Universitarios la información que deben ofrecer a los estudiantes para que éstos visiten y soliciten a las empresas e instituciones (a partir de ahora, entidades) las prácticas que posteriormente se intercambiarán con los Comités Extranjeros.

Para organizar las visitas a las entidades, cada estudiante español se integra en un grupo de trabajo dentro de su Centro, donde se le aconseja y dota de materiales –cartas de presentación, documentos de apoyo, tarjetas de visita, etc-

El estudiante presenta el programa a la entidad; si ésta muestra interés, IAESTE le ofrece finalmente una **Oferta de Colaboración Universidad-Empresa** para un estudiante extranjero, siempre en términos que las entidades encuentren atractivos.

IAESTE-España tiene como fecha para la recepción de ofertas de prácticas hasta el 7 enero 2021 en un primer plazo, y hasta el 14 de enero 2021 en último plazo

En enero se realiza el intercambio de ofertas en la Conferencia Internacional. Posteriormente, la Comisión Nacional clasifica las ofertas intercambiadas por especialidades, y procede a su adjudicación entre todos los Centros españoles participantes.

A partir de este momento y hasta el 31 de marzo 2021 se inscriben los candidatos españoles en cada Centro y se envían sus candidaturas a los países receptores. A finales de ese mes se reciben las candidaturas extranjeras en IAESTE España, siendo remitidas a las entidades, donde se comprueban los perfiles de los universitarios extranjeros nominados. Si encuentra adecuado o no al candidato, la entidad nos comunicará si éste es aceptado o rechazado.

La fecha límite para comunicar si un estudiante extranjero es aceptado o rechazado es un máximo de cuatro semanas a partir de la recepción de su expediente.

Las prácticas se desarrollan normalmente a partir del 1 de junio de 2021 hasta el 31 de mayo de 2022, sin perjuicio de que puedan comenzar o finalizar en otros periodos.

Durante el periodo de prácticas, las diferentes Delegaciones regionales de IAESTE-ESPAÑA organizan programas de recepción para los estudiantes, procurándoles alojamiento, cursos de idiomas y actividades culturales.



Entidades colaboradoras durante el curso 2019-2020

Todo este trabajo carecería de sentido sin la colaboración de las Empresas e Instituciones españolas que sustentan el intercambio ofreciendo prácticas que posibilitan al estudiante la adquisición de experiencia técnica relacionada con sus estudios. A continuación, se incluye el listado de empresas e instituciones que han colaborado con IAESTE-España durante el curso pasado:

- A3 Leather Innovation Center
- ABRA MANAGEMENT SERVICES S.L.
- ADSALSA SLU
- AIAL Group, Innovative Solutions SL
- AIMPLAS
- AITEX
- ALTER TECHNOLOGY TUV NORD SAU
- ALUCAN ENTEC, S.A.
- AMBAR TELECOMUNICACIONES SL
- APLICACIONES MECÁNICAS DEL CAUCHO S.A.
- APLITOP, S.L.
- ARC Aragon Ingenieria S.L.U.
- AVIVA Marketing S.L.U.
- AVL IBÉRICA, S.A.
- BABCOCK VALVES, S.A.
- BATURA MOBILE SOLUTIONS
- Blue Factory Team
- Burgos & Garrido Arquitectos
- CHAV, S.A.
- Citythinking S.L.



- CMZ MACHINERY GROUP S.A.
- Cobra Instalaciones y Servicios SA
- Colegio Seminario Menor Diocesano
- Copcisa SA
- CYPE Ingenieros S.A.
- Dair Ingenieros S.L.
- DATIVE PARTNERS S.L.
- Departamento Ingeniería Civil, Hidráulica, Energía y Medio Ambiente ETSI Caminos UP
- Different Travel, SLU
- DINAMICA COMPLEMENTS S.L.
- Elecnor S.A
- Electrónica SALTO SL
- Empresarios Agrupados Internacional SA
- ENCAMINA SL
- EQUIMODAL S.L.
- Estrategias de Ingeniería y Desarrollo EID S.L.
- Estudio de arquitectura ENABAS, S.L.P.
- Eurobits Technologies SL
- Everis Aragón
- eVIDA- Universidad de Deusto
- Factory Data, S.L.
- FANOX ELECTRONIC S.L.
- FUNCIONA SOLUCIONES INFORMATICAS SL
- Gamelearn
- GESNAER CONSULTING SLNE
- Gesturvina S.L
- Gistek Insurance Solutions



- Grupo logístico Sese, S.L
- HI IBERIA INGENIERIA Y PROYECTOS SL
- HIBERUS TECNOLOGÍA
- Hotel Management Concept Iberia SA
- IBERDROLA S.A.
- IDEATEC ADVANCED ACOUSTIC SOLUTIONS
- IDOM Consulting, Engineering, Architecture, SAU
- IKERLAN S.C.
- IMARTEC ENERGIA, S.L
- INECO
- Infraestructuras de Muntanya
- Infrakonsult Europa SL
- Ingeniería y Desarrollo CAM S.C.A. (IDECAM)
- INSTRUMENTOS TESTO, S.A.
- INVELON
- JYMPA
- Kintech Ingeniería S.L
- KLEIN IBERICA, S.A.U
- Knowledge Centric Solutions, S.L.
- La Palma Research Centre for Future Studies SL
- LAFARGEHOLCIM ESPAÑA S.A.U.
- LIBERTY LIVING GALILEO GALILEI SLU
- MAGNET S. COOP
- Meaningcloud
- Neodiagnostica My ADN Labs
- Niche Beauty Lab S.L.
- Nuevas Tecnologías de Venta
- ODEC



- Olalquiaga Arquitectos S.L.P
- ÓRBITA INGENIERÍA SL
- PARKIMETER TECHNOLOGIES SL
- PIERBURG
- PINE EQUIPOS ELECTRICOS, S.A.U.
- PINE INSTALACIONES Y MONTAJES, S.A.
- PINTURAS HEMPEL S.AU.
- Roboyo Spain S.L.U
- SCANNER PATRIMONIO E INDUSTRIA S.L.
- SENSING TEX, S.L.
- SERMICRO
- Seven Eighths IP Management Services S.L.
- SOLUCIONES Y SERVICIOS TELEMÁTICOS SL
- Sothis Enterprise Resource Planning SL
- STADLER RAIL VALENCIA S.A.U.
- SynTech Research
- Taller de Projectes i Enginyeria SL
- TecnoCampus Mataró-Maresme
- TECNOLOGIAS AVANZADAS INSPIRALIA
- TEKNIA BILBAO XXI, SLU
- TEPRO CONSULTORES AGRÍCOLAS S.L.
- Teralco Solutions SL
- TopCable
- Tribalyte Technologies, S.L.
- TURIJOBS TOURISM SERVICES SLU
- UGROUND
- University of Lleida (APSE)
- VISION INNOVATION DIVERSION SL



- WINFOR SLU
- Ymant Servicios Informáticos SL
- YSP CONSULTING GROUP AB
- ZEUS CONTROL SA



Calendario

Actividad desarrollada por IAESTE



Búsqueda de Ofertas de Prácticas para estudiantes extranjeros en las entidades de cada país miembro

Fin del periodo de búsqueda de Ofertas de Prácticas

Intercambio de Ofertas de Prácticas entre los países miembros durante la Conferencia Anual de IAESTE



Selección y envío de la información de los candidatos españoles a las entidades extranjeras receptoras



Envío de la información de los candidatos extranjeros a las entidades españolas receptoras



Tramitación de alojamientos, permisos y otra documentación para los estudiantes aceptados

Comienza la recepción de los estudiantes extranjeros

Organización de actividades para los estudiantes

Actividad desarrollada por la Entidad



Atención a las visitas de estudiantes españoles. Cumplimentación de Ofertas de Prácticas



Aceptación o rechazo del candidato propuesto.

Fin del periodo de aceptación de estudiantes nominados



Comienzo de las prácticas

Octubre

Noviembre

Diciembre

2020

Enero

Febrero

Marzo

Abril

2021

Mayo

Junio

Julio

Agosto

Septiembre

Octubre



Cómo cumplimentar la Oferta de Prácticas

Especialidad

Los campos de estudio que las prácticas de IAESTE contemplan son principalmente de carácter técnico-científico, siendo los que figuran a continuación. Se podrán elegir como máximo 3 carreras (General Discipline) y hasta 3 especialidades diferentes (Field of Study) dentro de cada Discipline:

LISTADO DE CARRERAS (GENERAL DISCIPLINE) Y ESPECIALIDADES (FIELD OF STUDY) **RECONOCIDAS POR IAESTE asbl**

A seleccionar un máximo de 3 General Discipline de la siguiente lista:

01	AGRICULTURE AND FOOD SCIENCE
03	NATURAL RESOURCES AND CONSERVATION.
04	ARCHITECTURE
09	COMMUNICATION, JOURNALISM, AND RELATED PROGRAMS. (added 2020)
11	COMPUTER AND INFORMATION SCIENCES AND SUPPORT SERVICES.
13	EDUCATION.
14A	ENGINEERING, Other
14B	CIVIL ENGINEERING, GEOLOGY AND MINING
14C	ELECTRICAL AND ELECTRONICS ENGINEERING
14D	MECHANICAL ENGINEERING
26	BIOLOGICAL AND BIOMEDICAL SCIENCES.
27	MATHEMATICS AND STATISTICS.
40A	PHYSICAL SCIENCES, Other
40B	PHYSICS
40C	CHEMISTRY, MATERIAL SCIENCE, AND CHEMICAL ENGINEERING
42	PSYCHOLOGY (added 2020)
45	ECONOMICS AND SOCIAL SCIENCES
52	BUSINESS, MANAGEMENT, AND MARKETING
ANY	Any
OTHER	Other



Por cada General Discipline seleccionado, determinar hasta un máximo de 3 especialidades (Field of Study) de la siguiente lista:

01	AGRICULTURE AND FOOD SCIENCE	Instructional programs that focus on agriculture and related sciences and that prepare individuals to apply specific knowledge, methods, and techniques to the management and performance of agricultural operations.
01.0000	Agriculture, General.	A program that focuses on the general principles and practice of agricultural research and production and that may prepare individuals to apply this knowledge to the solution of practical agricultural problems. Includes instruction in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching, and agricultural business.
01.0601	Applied Horticulture/Horticulture Operations, General.	A program that focuses on the general production and processing of domesticated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services; and the basic scientific principles needed to understand plants and their management and care.
01.1001	Food Science.	A program that focuses on the application of biological, chemical, and physical principles to the study of converting raw agricultural products into processed forms suitable for direct human consumption, and the storage of such products. Includes instruction in applicable aspects of the agricultural sciences, human physiology and nutrition, food chemistry, agricultural products processing, food additives, food preparation and packaging, food storage and shipment, and related aspects of human health and safety including toxicology and pathology.
01.1002	Food Technology and Processing.	A program that focuses on the application of chemical, physical, and engineering principles to the development and implementation of manufacturing, packaging, storage, and distribution technologies and processes for food products. Includes instruction in food engineering, food preservation and handling, food preparation, food packaging and display, food storage and shipment, and related equipment and facilities design, operation, and maintenance.



01.1101 (added 2020)	Plant Science, General (added 2020)	A general program that focuses on the scientific principles that underlie the breeding, cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. Includes instruction in the plant sciences, crop cultivation and production, and agricultural and food products processing.
01.1201	Soil Science and Agronomy, General.	A program that generally focuses on the scientific classification of soils, soil properties, and their relationship to agricultural crops. Includes instruction in soil chemistry, soil physics, soil biology, soil fertility, morphogenesis, mineralogy, hydrology, agronomy, and soil conservation and management.
01.1202	Soil Chemistry and Physics.	A program that focuses on the application of chemical and physical principles to research and analysis concerning the nature and properties of soils and the conservation and management of soils. Includes instruction in soil and fluid mechanics, mineralogy, sedimentology, thermodynamics, geomorphology, environmental systems, analytical methods, and organic and inorganic chemistry.
01.1203	Soil Microbiology.	A program that focuses on application of microbiological theory and methods to the study of the organismic properties of soils, soil-plant and soil-animal interactions, and the biological components and effects of soil management strategies. Includes instruction in microbiology and related biological sciences, applicable animal and plant sciences, soil chemistry and physics as related to biological characteristics, and environmental science.
03	NATURAL RESOURCES AND CONSERVATION.	Instructional programs that focus on the various natural resources and conservation fields and prepare individuals for related occupations.
03.0103	Environmental Studies.	A program that focuses on environment-related issues using scientific, social scientific, or humanistic approaches or a combination. Includes instruction in the basic principles of ecology and environmental science and related subjects such as policy, politics, law, economics, social aspects, planning, pollution control, natural resources, and the interactions of human beings and nature.
03.0104	Environmental Science.	



		A program that focuses on the application of biological, chemical, and physical principles to the study of the physical environment and the solution of environmental problems, including subjects such as abating or controlling environmental pollution and degradation; the interaction between human society and the natural environment; and natural resources management. Includes instruction in biology, chemistry, physics, geosciences, climatology, statistics, and mathematical modeling.
03.0501	Forestry, General.	A program that generally prepares individuals to manage and develop forest areas for economic, recreational, and ecological purposes. Includes instruction in forest-related sciences, mapping, statistics, harvesting and production technology, natural resources management and economics, wildlife sciences, administration, and public relations.
03.0502	Forest Sciences and Biology.	A program that focuses on the application of one or more forest-related sciences to the study of environmental factors affecting forests and the growth and management of forest resources. Includes instruction in forest biology, forest hydrology, forest mensuration, silviculture, forest soils, water resources, environmental science, forest resources management, and wood science.
03.0508	Urban Forestry.	A program that prepares individuals to apply the principles of forestry and related sciences to the development, care, and maintenance of individual trees and forested areas within or close to areas of dense human habitation. Includes instruction in urban environments; effects of pollution on tree species; environmental design and landscaping; urban pest infestation; urban forest management; and applicable policies and regulations.
04	ARCHITECTURE	Instructional programs that prepare individuals for professional practice in the various architecture-related fields and focus on the study of related aesthetic and socioeconomic aspects of the built environment.
04.0201	Architecture.	A program that prepares individuals for the independent professional practice of architecture and to conduct research in various aspects of the field. Includes instruction in architectural design, history, and theory; building structures and environmental systems; project and site planning; construction; professional responsibilities and standards; and related cultural, social, economic, and environmental issues.
04.0301	City/Urban, Community and Regional Planning.	



		A program that prepares individuals to apply principles of planning, analysis, and architecture to the development and improvement of urban areas and surrounding regions, and to function as professional planners. Includes instruction in principles of architecture; master plan development; service, communications, and transportation systems design; community and commercial development; zoning; land use planning; applied economics; policy analysis; applicable laws and regulations; and professional responsibilities and managerial duties.
04.0401	Environmental Design/Architecture.	A program that prepares individuals to design public and private spaces, indoor and outdoor, for leisure, recreational, commercial, and living purposes, and for professional practice as environmental designers and architects. Includes instruction in the design and planning of public and private open spaces and their relationship to buildings and other aspects of the built environment; facilities management; related aspects of interior design and architecture, landscape architecture, and urban planning; and professional responsibilities and standards.
04.0501	Interior Architecture.	A program that prepares individuals to apply architectural principles in the design of structural interiors for living, recreational, and business purposes and to function as professional interior architects. Includes instruction in architecture, structural systems design, heating and cooling systems, occupational and safety standards, interior design, specific end-use applications, and professional responsibilities and standards.
04.0601	Landscape Architecture.	A program that prepares individuals for the independent professional practice of landscape architecture and research in various aspects of the field. Includes instruction in geology and hydrology; soils, groundcovers, and horticultural elements; project and site planning; landscape design, history, and theory; environmental design; applicable law and regulations; and professional responsibilities and standards.
04.0901	Architectural Technology/Technician.	A program that prepares individuals to assist architects in developing plans and related documentation and in performing architectural office services. Includes instruction in architectural drafting, computer-assisted drafting and design, construction methods and materials, environmental systems, building codes and standards, structural principles, cost estimation, planning documentation, visual communication skills, display production, and architectural office management.



09	COMMUNICATION, JOURNALISM, AND RELATED PROGRAMS.(added 2020)	
09.0100	Communication, general	A program that focuses on the comprehensive study of communication, and that spans the study of mass communication/media studies, old and new media technologies, social and political applications, and speech communication and rhetoric. Includes instruction in interpersonal, group, organizational, and intercultural communication; theories of communication; critical thinking, argumentation, and persuasion; written communication; printed, electronic, and digital media; rhetorical tradition and criticism; media, society, and culture; consequences and effects of mass media; media social science and criticism; and quantitative and qualitative methods of inquiry.
09.0401	Journalism	A program that focuses on the theory and practice of gathering, processing, and delivering news and that prepares individuals to be professional print journalists, news editors, and news managers. Includes instruction in news writing and editing; reporting; photojournalism; layout and graphic design; journalism law and policy; professional standards and ethics; research methods; and journalism history and criticism.
09.0701	Radio and Television	A program that focuses on the theories, methods, and techniques used to plan, produce, and distribute audio and video programs and messages, and that prepares individuals to function as staff, producers, directors, and managers of radio and television shows and media organizations. Includes instruction in media aesthetics; planning, scheduling, and production; writing and editing; performing and directing; personnel and facilities management; marketing and distribution; media regulations, law, and policy; and principles of broadcast technology.
09.0702	Digital Communication and Media/Multimedia.	program that focuses on the development, use, critical evaluation, and regulation of new electronic communication technologies using computer applications; and that prepares individuals to function as developers and managers of digital communications media. Includes instruction in computer and telecommunications technologies and processes; design and development of digital communications; marketing and distribution; digital communications regulation, law, and policy; the study of human interaction with, and use of, digital media; and emerging trends and issues.
09.0900	Public Relations, Advertising, and Applied Communication.	A general program that focuses on organizational communication, public relations, and advertising; and that prepares individuals to function in a wide range of public and private sector positions requiring the skills of persuasive communication. Includes instruction in communications, public relations, and advertising theory; principles and techniques of persuasion; message/image design; marketing strategy;



		professional writing; public speaking and multi-media presentation skills; digital communications; and applied research.
11	COMPUTER AND INFORMATION SCIENCES	Instructional programs that focus on the computer and information sciences and prepare individuals for various occupations in information technology and computer operations fields.
11.0101	Computer and Information Sciences, General.	A general program that focuses on computing, computer science, and information science and systems. Such programs are undifferentiated as to title and content and are not to be confused with specific programs in computer science, information science, or related support services.
11.0102	Artificial Intelligence.	A program that focuses on the symbolic inference, representation, and simulation by computers and software of human learning and reasoning processes and capabilities, and the computer modeling of human motor control and motion. Includes instruction in computing theory, cybernetics, human factors, natural language processing, and applicable aspects of engineering, technology, and specific end-use applications.
11.0103	Information Technology.	A program that focuses on the design of technological information systems, including computing systems, as solutions to business and research data and communications support needs. Includes instruction in the principles of computer hardware and software components, algorithms, databases, telecommunications, user tactics, application testing, and human interface design.
11.0104	Informatics.	A program that focuses on computer systems from a user-centered perspective and studies the structure, behavior and interactions of natural and artificial systems that store, process and communicate information. Includes instruction in information sciences, human computer interaction, information system analysis and design, telecommunications structure and information architecture and management.
11.0201	Computer Programming/Programmer, General.	A program that focuses on the general writing and implementation of generic and customized programs to drive operating systems and that generally prepares individuals to apply the methods and procedures of software design and programming to software installation and maintenance. Includes instruction in software design, low- and high-level languages and program writing; program customization and linking; prototype testing; troubleshooting; and related aspects of operating systems and networks.



11.0202	Computer Programming, Specific Applications.	A program that prepares individuals to apply the knowledge and skills of general computer programming to the solution of specific operational problems and customization requirements presented by individual software users and organizational users. Includes training in specific types of software and its installation and maintenance.
11.0401	Information Science/Studies.	A program that focuses on the theory, organization, and process of information collection, transmission, and utilization in traditional and electronic forms. Includes instruction in information classification and organization; information storage and processing; transmission, transfer, and signaling; communications and networking; systems planning and design; human interfacing and use analysis; database development; information policy analysis; and related aspects of hardware, software, economics, social factors, and capacity.
11.0501	Computer Systems Analysis/Analyst.	A program that prepares individuals to apply programming and systems analysis principles to the selection, implementation, and troubleshooting of customized computer and software installations across the life cycle. Includes instruction in computer hardware and software; compilation, composition, execution, and operating systems; low- and high-level languages and language programming; programming and debugging techniques; installation and maintenance testing and documentation; process and data flow analysis; user needs analysis and documentation; cost-benefit analysis; and specification design.
11.0601	Data Entry/Microcomputer Applications, General.	A program that generally prepares individuals to perform basic data and text entry using standard and customized software products. Includes instruction in keyboarding skills, personal computer and work station operation, reading draft texts and raw data forms, audio and tape dictation, and various interactive software programs used for tasks such as word processing, spreadsheets, databases, and others.
11.0701	Computer Science.	A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.



11.0801	Web Page, Digital/Multimedia and Information Resources Design.	A program that prepares individuals to apply HTML, XML, Javascript, graphics applications, and other authoring tools to the design, editing, and publishing (launching) of documents, images, graphics, sound, and multimedia products on the World Wide Web. Includes instruction in Internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools, and emerging web technologies.
11.0802	Data Modeling/Warehousing and Database Administration.	A program that prepares individuals to design and manage the construction of databases and related software programs and applications, including the linking of individual data sets to create complex searchable databases (warehousing) and the use of analytical search tools (mining). Includes instruction in database theory, logic, and semantics; operational and warehouse modeling; dimensionality; attributes and hierarchies; data definition; technical architecture; access and security design; integration; formatting and extraction; data delivery; index design; implementation problems; planning and budgeting; and client and networking issues.
11.0803	Computer Graphics.	A program that focuses on the software, hardware, and mathematical tools used to represent, display, and manipulate topological, two-, and three-dimensional objects on a computer screen and that prepares individuals to function as computer graphics specialists. Includes instruction in graphics software and systems; digital multimedia; graphic design; graphics devices, processors, and standards; attributes and transformations; projections; surface identification and rendering; color theory and application; and applicable geometry and algorithms.
11.0899	Computer Software and Media Applications, Other.	Any instructional program in computer software and media applications not listed above.
11.0901	Computer Systems Networking and Telecommunications.	A program that focuses on the design, implementation, and management of linked systems of computers, peripherals, and associated software to maximize efficiency and productivity, and that prepares individuals to function as network specialists and managers at various levels. Includes instruction in operating systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.



11.1003	Computer and Information Systems Security/Information Assurance.	A program that prepares individuals to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. Includes instruction in computer architecture, programming, and systems analysis; networking; telecommunications; cryptography; security system design; applicable law and regulations; risk assessment and policy analysis; contingency planning; user access issues; investigation techniques; and troubleshooting.
11.1004	Web/Multimedia Management and Webmaster.	A program that prepares individuals to develop and maintain web servers and the hosted web pages at one or a group of web sites, and to function as designated webmasters. Includes instruction in computer systems and networks, server installation and maintenance, web page design and editing, information resources management, web policy and procedures, Internet applications of information systems security, user interfacing and usability research, and relevant management and communications skills.
11.1005	Information Technology Project Management.	A program that prepares individuals to design, develop, and manage information technology projects in a variety of companies and organizations. Includes instruction in principles of project management, risk management, procurement and contract management, information security management, software management, organizational principles and behavior, communications, quality assurance, financial analysis, leadership, and team effectiveness.
30.39901	Economics and Computer Science. (added 2020)	A program of study that focuses on the theoretical and practical connections between computer science and economics. Includes instruction in data analysis, database design, data mining, computer algorithms, economics, econometrics, computer programming, mathematics, and statistics.
30.7001	2020 Data Science, General.	A program that focuses on the analysis of large scale data sources from the interdisciplinary perspectives of applied statistics, computer science, data storage, data representation, data modeling, mathematics, and statistics. Includes instruction in computer algorithms, computer programming, data management, data mining, information policy, information retrieval, mathematical modeling, quantitative analysis, statistics, trend spotting, and visual analytics.



13	EDUCATION.	Instructional programs that focus on the theory and practice of learning and teaching, and related research, administrative and support services.
13.0101	Education, General.	A program that focuses on the general theory and practice of learning and teaching, the basic principles of educational psychology, the art of teaching, the planning and administration of educational activities, school safety and health issues, and the social foundations of education.
13.0201	Bilingual and Multilingual Education.	A program that focuses on the design and provision of teaching and other educational services to bilingual/bicultural children or adults, and/or the design and implementation of educational programs having the goal of producing bilingual/bicultural individuals. Includes preparation to serve as teachers and administrators in bilingual/bicultural education programs.
13.0202	Multicultural Education.	A program that focuses on the design, and implementation of instructional and advising services for culturally diverse learning populations. Includes instruction in cultural diversity, at-risk populations, multilingual and ESL education, program and curriculum design, instructional technology, information resources, LEP and minority education strategies, counseling and communicating with multicultural populations, law and regulations, and applications to specific cultural groups, educational services, and research issues.
14A	ENGINEERING, Other	
14.0101	Engineering, General.	A program that generally prepares individuals to apply mathematical and scientific principles to solve a wide variety of practical problems in industry, social organization, public works, and commerce. Includes instruction in undifferentiated and individualized programs in engineering.
14.0501	Bioengineering and Biomedical Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of biomedical and health systems and products such as integrated biomedical systems, instrumentation, medical information systems, artificial organs and prostheses, and health management and care delivery systems.



14.0901	Computer Engineering, General.	A program that generally prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer hardware and software systems and related equipment and facilities; and the analysis of specific problems of computer applications to various tasks.
14.0902	Computer Hardware Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development, and evaluation of computer hardware and related peripheral equipment. Includes instruction in computer circuit and chip design, circuitry, computer systems design, computer equipment design, computer layout planning, testing procedures, and related computer theory and software topics.
14.0903	Computer Software Engineering.	A program that prepares individuals to apply scientific and mathematical principles to the design, analysis, verification, validation, implementation, and maintenance of computer software systems using a variety of computer languages. Includes instruction in discrete mathematics, probability and statistics, computer science, managerial science, and applications to complex computer systems.
14.1201	Engineering Physics/Applied Physics.	A program focusing on the use of physics principles in the analysis and evaluation of engineering problems and other scientific applications. Includes instruction in high- and low-temperature phenomena, computational physics, superconductivity, applied thermodynamics, molecular and particle physics applications, and space science research.
14.1401	Environmental/Environmental Health Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for controlling contained living environments and for monitoring and controlling factors in the external natural environment, including pollution control, waste and hazardous material disposal, health and safety protection, conservation, life support, and requirements for protection of special materials and related work environments.
14.2001	Metallurgical Engineering.	A program that prepares individuals to apply mathematical and metallurgical principles to the design, development and operational evaluation of metal components of structural, load-bearing, power, transmission, and moving systems; and the analysis of engineering problems such as stress, creep, failure, alloy behavior, environmental fluctuations, stability, electromagnetic and thermodynamic characteristics, optimal manufacturing processes, and related design considerations.



14.2201	Naval Architecture and Marine Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of self-propelled, stationary, or towed vessels operating on or under the water, including inland, coastal and ocean environments; and the analysis of related engineering problems such as corrosion, power transfer, pressure, hull efficiency, stress factors, safety and life support, environmental hazards and factors, and specific use requirements.
14.2301	Nuclear Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for controlling and manipulating nuclear energy, including nuclear power plant design, fission reactor design, fusion reactor design, reactor control and safety systems design, power transfer systems, containment vessels and structures design; and the analysis of related engineering problems such as fission and fusion processes, human and environmental factors, construction, and operational considerations.
14.2701	Systems Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of total systems solutions to a wide variety of engineering problems, including the integration of human, physical, energy, communications, management, and information requirements as needed, and the application of requisite analytical methods to specific situations.
14.3501	Industrial Engineering.	A program that prepares individuals to apply scientific and mathematical principles to the design, improvement, and installation of integrated systems of people, material, information, and energy. Includes instruction in applied mathematics, physical sciences, the social sciences, engineering analysis, systems design, computer applications, and forecasting and evaluation methodology.
14.3601	Manufacturing Engineering.	A program that prepares individuals to apply scientific and mathematical principles to the design, development, and implementation of manufacturing systems. Includes instruction in materials science and engineering, manufacturing processes, process engineering, assembly and product engineering, manufacturing systems design, and manufacturing competitiveness.



14.4301	Biochemical Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the study of biochemical processes in living organisms, properties of biological materials, and processes using biochemical agents such as cells, enzymes, and antibodies. Includes instruction in biology, chemistry, physics, biochemistry, thermodynamics, fluid dynamics, bioprocesses, and chemical engineering.
14.4801	Energy Systems Engineering, General. (added 2020)	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of energy generation, storage, conversion, and distribution systems. Includes instruction in conventional and alternative/renewable energy systems, electrical power systems, and electrical system design.
14.9999	Engineering, Other.	Any instructional program in engineering not listed above.
15.0702	Quality Control Technology/Technician.	A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining consistent manufacturing and construction standards. Includes instruction in quality control systems management principles, technical standards applicable to specific engineering and manufacturing projects, testing procedures, inspection procedures, related instrumentation and equipment operation and maintenance, and report preparation.
15.1601	Nanotechnology.	A program that prepares individuals to apply mathematical, scientific, and engineering principles and technical skills to manipulate matter at the atomic and molecular level (in the range of 1-100 nanometers) and to design, fabricate, and integrate nanoscale structures, devices, and systems. Includes instruction in materials science, thermodynamics, nanomaterials, nanoelectronics, and nano/micro device fabrication and testing.
15.1502	Engineering Design (added 2020)	An instructional program that prepares individuals to apply mathematical and scientific principles to engineering problems involving marrying or coordinating multiple dissimilar systems to carry out single functions or achieve common purposes, organizing system components for maximum flexibility and utility, planning engineering projects involving multiple tasks and design solutions, planning design testing and evaluation procedures, resolving specification and requirement conflicts, and choosing among competing theoretical solutions. Note: this program was re-instated after being deleted from CIP 2000; previously, it was coded as 14.2901.



50.0404	Industrial and Product Design (added 2020).	A program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via the creation of effective forms, shapes, and packaging for manufactured products. Includes instruction in designing in a wide variety of plastic and digital media, prototype construction, design development and refinement, principles of cost saving, and product structure and performance criteria relevant to aesthetic design parameters.
14B	CIVIL ENGINEERING, GEOLOGY AND MINING	
14.0801	Civil Engineering, General.	A program that generally prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of structural, load-bearing, material moving, transportation, water resource, and material control systems; and environmental safety measures.
14.0802	Geotechnical and Geoenvironmental Engineering.	A program that prepares individuals to apply geotechnical engineering methods, which deal with the analysis, design and construction of earth and earth supported structures, to the application of environmental problems, such as waste containment, waste disposal, construction of land fills, soil permeation, soil analysis, and soil improvement. Includes instruction in soil mechanics, soil dynamics, soil behavior, waste management and containment systems, geosynthetics, geochemistry, earth structures, geoenvironmental engineering, geotechnical engineering, earthquake engineering, and foundation engineering
14.0803	Structural Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of materials and systems used in building load-bearing structures for various purposes and in different environments, including buildings, roads, rail lines, bridges, dams, conduits, offshore platforms and work stations, and other structural shells; and the analysis of structural problems such as, failure, fabrication, safety, and natural hazards.
14.0804	Transportation and Highway Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of total systems for the physical movement of people, materials and information, including general network design and planning, facilities planning, site evaluation, transportation management systems, needs projections and analysis, and analysis of costs.



14.0805	Water Resources Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for collecting, storing, moving, conserving and controlling surface- and groundwater, including water quality control, water cycle management, management of human and industrial water requirements, water delivery, and flood control.
14.2101	Mining and Mineral Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of mineral extraction, processing and refining systems, including open pit and shaft mines, prospecting and site analysis equipment and instruments, environmental and safety systems, mine equipment and facilities, mineral processing and refining methods and systems, and logistics and communications systems.
14.3301	Construction Engineering.	A program that prepares individuals to apply scientific, mathematical, and management principles to the planning, design, and building of facilities and structures. Includes instruction in civil engineering, structural principles, site analysis, computer-assisted design, geology, evaluation and testing, materials, contracting, project management, graphic communications, and applicable laws and regulations.
14.3801	Surveying Engineering.	A program that prepares individuals to apply scientific and mathematical principles to the determination of the location, elevations, and alignment of natural and manmade topographic features. Includes instruction in property line location, surveying, surface measurement, aerial and terrestrial photogrammetry, remote sensing, satellite imagery, global positioning systems, computer applications, and photographic data processing.
14.3901	Geological/Geophysical Engineering.	A program that prepares individuals to apply mathematical and geological principles to the analysis and evaluation of engineering problems, including the geological evaluation of construction sites, the analysis of geological forces acting on structures and systems, the analysis of potential natural resource recovery sites, and applied research on geological phenomena.



14C	ELECTRICAL AND ELECTRONICS ENGINEERING	
14.1001	Electrical and Electronics Engineering	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of electrical and electronic systems and their components, including electrical power generation systems; and the analysis of problems such as superconductor, wave propagation, energy storage and retrieval, and reception and amplification.
14.1003	Laser and Optical Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of optical systems, lasers and related electronic devices. Includes instruction in wave theory and mechanics, electromagnetic applications, linear and non-linear optics, photon detecting, laser beam properties, directed energy, harmonic generation, optical systems, shielding and the design and implementation of related systems and equipment.
14.1004	Telecommunications Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development, and maintenance of telecommunications technology, networks, and systems. Includes instruction in telecommunications, computer networking, communications networks and systems, signals, circuits, fiber optics, and wireless systems and technology.
14.1099	Electrical, Electronics and Communications Engineering, Other.	Any instructional program in electrical, electronics and communications engineering not listed above.
14.4101	Electromechanical Engineering.	A program that prepares individuals to apply scientific and mathematical principles to the problems associated with combining electrical and mechanical components with special emphasis on manufacturing and automated processes. Includes instruction in applied mechanics, instrumentation and monitoring, machine design, automated control techniques, fluid and thermal dynamics, circuit analysis, and solid state electronics.
14.4801	Energy Systems Engineering, General (added 2020)	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of energy generation, storage, conversion, and distribution systems. Includes instruction in conventional and alternative/renewable energy systems, electrical power systems, and electrical system design.
14.XX02	Embedded Systems	
14D	MECHANICAL ENGINEERING	



14.0201	Aerospace, Aeronautical and Astronautical/Space Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of aircraft, missiles, space vehicles, and their systems; applied research on flight and orbital characteristics; and the development of systems and procedures for the launching, guidance, and control of air and space vehicles.
14.1101	Engineering Mechanics.	A program with a general focus on the application of the mathematical and scientific principles of classical mechanics to the analysis and evaluation of the behavior of structures, forces and materials in engineering problems. Includes instruction in statics, kinetics, dynamics, kinematics, celestial mechanics, stress and failure, and electromagnetism.
14.1901	Mechanical Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of physical systems used in manufacturing and end-product systems used for specific uses, including machine tools, jigs and other manufacturing equipment; stationary power units and appliances; engines; self-propelled vehicles; housings and containers; hydraulic and electric systems for controlling movement; and the integration of computers and remote control with operating systems.
14.4201	Mechatronics, Robotics, and Automation Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of computer controlled electro-mechanical systems and products with embedded electronics, sensors, and actuators; and which includes, but is not limited to, automata, robots and automation systems. Includes instruction in mechanical engineering, electronic and electrical engineering, computer and software engineering, and control engineering.
26	BIOLOGICAL AND BIOMEDICAL SCIENCES.	Instructional programs that focus on the biological sciences and the non-clinical biomedical sciences, and that prepare individuals for research and professional careers as biologists and biomedical scientists.
26.0101	Biology/Biological Sciences, General.	A general program of biology at the introductory, basic level or a program in biology or the biological sciences that is undifferentiated as to title or content. Includes instruction in general biology and programs covering a variety of biological specializations.
26.0102	Biomedical Sciences, General.	



		A general, program that focuses on the integrative scientific study of biological issues related to health and medicine, or a program in one or more of the biomedical sciences that is undifferentiated as to title. Includes instruction in any of the basic medical sciences at the research level; biological science research in biomedical faculties; and general studies encompassing a variety of the biomedical disciplines.
26.0202	Biochemistry.	A program that focuses on the scientific study of the chemistry of living systems, their fundamental chemical substances and reactions, and their chemical pathways and information transfer systems, with particular reference to carbohydrates, proteins, lipids, and nucleic acids. Includes instruction in bio-organic chemistry, protein chemistry, bioanalytical chemistry, bioseparations, regulatory biochemistry, enzymology, hormonal chemistry, calorimetry, and research methods and equipment operation.
26.0203	Biophysics.	A program that focuses on the application of physics principles to the scientific study of the mechanisms of biological processes and assemblies at all levels of complexity. Includes instruction in research methods and equipment operation and applications to subjects such as bioenergetics, biophysical theory and modeling, electrophysics, membrane biology, channels, receptors and transporters, contractility and muscle function, protein shaping and folding, molecular and supramolecular structures and assemblies, and computational science.
26.0204	Molecular Biology.	A program that focuses on the scientific study of the structure and function of biological macromolecules and the role of molecular constituents and mechanisms in supramolecular assemblies and cells. Includes instruction in such topics as molecular signaling and transduction, regulation of cell growth, enzyme substrates and mechanisms of enzyme action, DNA-protein interaction, and applications to fields such as biotechnology, genetics, cell biology, and physiology.
26.0205	Molecular Biochemistry.	A program that focuses on the scientific relationship of physiological function to the structure and actions of macromolecules and supramolecular assemblies such as multienzyme complexes, membranes, and viruses. Includes instruction in the chemical mechanisms of regulation and catalysis, protein synthesis and other syntheses, and biomolecular chemical reactions.
26.0207	Structural Biology.	



		A program that focuses on the scientific study of submolecular and molecular components and assemblies of living systems and how they are organized into functional units such as cells and anatomic tissues. Includes instruction in glycoprotein, carbohydrate, protein, and nucleic acid structures and chemistry; cytoskeletal structure; nuclear and intracellular structures; molecular recognition; molecular chaperones; transcription and folding; multicellular organization; microtubules and microfilaments; cell differentiation; immunophysics; and DNA sequencing.
26.0210	Biochemistry and Molecular Biology.	A program of study that combines the biological sub-disciplines of biochemistry and molecular biology. Includes instruction in general biology, general and organic chemistry, physics, biochemistry, molecular biology, immunology, microbiology, genetics, and cellular biology.
26.0301	Botany/Plant Biology.	A program that focuses on the scientific study of plants, related microbial organisms, and plant habitats and ecosystem relations. Includes instruction in plant anatomy and structure, phytochemistry, cytology, plant genetics, plant morphology and physiology, plant ecology, plant taxonomy and systematics, paleobotany, and applications of biophysics and molecular biology.
26.0502	Microbiology, General.	A program that focuses on the scientific study of unicellular organisms and colonies, and subcellular genetic matter and their ecological interactions with human beings and other life. Includes instruction in microbial genetics, cell biology, cell physiology, virology, pathogenic microbiology, environmental microbiology, immunology, biostatistics, bioinformatics, and laboratory methods including microscopy.
26.1001	Pharmacology.	A program that focuses on the scientific study of drug interactions on biological systems and organisms and the sources, chemical properties, biological effects, and therapeutic uses of drugs. Includes instruction in pharmacodynamics, pharmacokinetics, toxicology, drug therapeutics, drug action, bodily responses to drug events, biochemical proliferation and differentiation, apoptosis, cell biology, medicinal chemistry, and studies of specific drugs and drug interactions.
26.1201	Biotechnology.	A program that focuses on the application of the biological sciences, biochemistry, and genetics to the preparation of new and enhanced agricultural, environmental, clinical, and industrial products, including the commercial exploitation of microbes, plants, and animals. Includes instruction in bioinformatics, gene identification, phylogenetics and comparative genomics, bioinorganic chemistry, immunoassaying, DNA sequencing, xenotransplantation, genetic engineering, industrial microbiology, drug and biologic development, enzyme-based production processes, patent law, biotechnology management and marketing, applicable regulations, and biotechnology ethics.



27	MATHEMATICS AND STATISTICS.	Instructional programs that focus on the systematic study of logical symbolic language and its applications.
27.0101	Mathematics, General.	A general program that focuses on the analysis of quantities, magnitudes, forms, and their relationships, using symbolic logic and language. Includes instruction in algebra, calculus, functional analysis, geometry, number theory, logic, topology and other mathematical specializations.
27.0301	Applied Mathematics, General.	A program that focuses on the application of mathematics and statistics to the solution of functional problems in fields such as engineering and the applied sciences. Includes instruction in natural phenomena modeling continuum mechanics, reaction-diffusion, wave propagation, dynamic systems, numerical analysis, controlled theory, asymptotic methods, variation, optimization theory, inverse problems, and applications to specific scientific and industrial topics.
27.0303	Computational Mathematics.	A program that focuses on the application of mathematics to the theory, architecture, and design of computers, computational techniques, and algorithms. Includes instruction in computer theory, cybernetics, numerical analysis, algorithm development, binary structures, combinatorics, advanced statistics, and related topics.
27.0305	Financial Mathematics.	A program that focuses on the application of mathematics and statistics to the finance industry, including the development, critique, and use of various financial models. Includes instruction in probability theory, statistical analysis, numerical methods, computation and simulation methods, stochastic processes, economics, and financial markets and applications.
27.0501	Statistics, General.	A general program that focuses on the relationships between groups of measurements, and similarities and differences, using probability theory and techniques derived from it. Includes instruction in the principles in probability theory, binomial distribution, regression analysis, standard deviation, stochastic processes, Monte Carlo method, Bayesian statistics, non-parametric statistics, sampling theory, and statistical techniques.
27.0502	Mathematical Statistics and Probability.	A program that focuses on the mathematical theory underlying statistical methods and their use. Includes instruction in probability theory parametric and non-parametric inference, sequential analysis, multivariate analysis, Bayesian analysis, experimental design, time series analysis, resampling, robust statistics, limit theory, infinite particle systems, stochastic processes, martingales, Markov processes, and Banach spaces.



40A	PHYSICAL SCIENCES, Other	
40.0101	Physical Sciences.	A program that focuses on the major topics, concepts, processes, and interrelationships of physical phenomena as studied in any combination of physical science disciplines.
40.0601	Geology/Earth Science, General.	A program that focuses on the scientific study of the earth; the forces acting upon it; and the behavior of the solids, liquids and gases comprising it. Includes instruction in historical geology, geomorphology, and sedimentology, the chemistry of rocks and soils, stratigraphy, mineralogy, petrology, geostatistics, volcanology, glaciology, geophysical principles, and applications to research and industrial problems.
40.9999	Physical Sciences, Other.	Any instructional program in physical sciences not listed above.
40B	PHYSICS	
40.0202	Astrophysics.	A program that focuses on the theoretical and observational study of the structure, properties, and behavior of stars, star systems and clusters, stellar life cycles, and related phenomena. Includes instruction in cosmology, plasma kinetics, stellar physics, convolution and non-equilibrium radiation transfer theory, non-Euclidean geometries, mathematical modeling, galactic structure theory, and relativistic astronomy.
40.0801	Physics, General.	A general program that focuses on the scientific study of matter and energy, and the formulation and testing of the laws governing the behavior of the matter-energy continuum. Includes instruction in classical and modern physics, electricity and magnetism, thermodynamics, mechanics, wave properties, nuclear processes, relativity and quantum theory, quantitative methods, and laboratory methods.
40.0802	Atomic/Molecular Physics.	A program that focuses on the scientific study of the behavior of matter-energy phenomena at the level of atoms and molecules. Includes instruction in chemical physics, atomic forces and structure, molecular orbital theory, magnetic resonance, molecular bonding, phase equilibria, quantum theory of solids, and applications to the study of specific elements and higher compounds.



40.0805	Plasma and High-Temperature Physics.	A program that focuses on the scientific study of properties and behavior of matter at high temperatures, such that molecular and atomic structures are in a disassociated ionic or electronic state. Includes instruction in magnetohydrodynamics, free electron phenomena, fusion theory, electromagnetic fields and dynamics, plasma and non-linear wave theory, instability theory, plasma shock phenomena, quantitative modeling, and research equipment operation and maintenance.
40.0806	Nuclear Physics.	A program that focuses on the scientific study of the properties and behavior of atomic nuclei. Includes instruction in nuclear reaction theory, quantum mechanics, energy conservation, nuclear fission and fusion, strong and weak forces, nuclear modeling, nuclear decay, nucleon scattering, pairing, photon and electron reactions, the physics of nuclear effects, statistical methods, and research equipment operation and maintenance.
40.0807	Optics/Optical Sciences.	A program that focuses on the scientific study of light energy, including its structure, properties and behavior under different conditions. Includes instruction in wave theory, wave mechanics, electromagnetic theory, physical optics, geometric optics, quantum theory of light, photon detecting, laser theory, wall and beam properties, chaotic light, non-linear optics, harmonic generation, optical systems theory, and applications to engineering problems.
40.0809	Acoustics.	A program that focuses on the scientific study of sound, and the properties and behavior of acoustic wave phenomena under different conditions. Includes instruction in wave theory, the acoustic wave equation, energy transformation, vibration phenomena, sound reflection and transmission, scattering and surface wave phenomena, singularity expansion theory, ducting, and applications to specific research problems such as underwater acoustics, crystallography, and health diagnostics.
40.0810	Theoretical and Mathematical Physics.	A program that focuses on the scientific and mathematical formulation and evaluation of the physical laws governing, and models describing, matter-energy phenomena, and the analysis of related experimental designs and results. Includes instruction in classical and quantum theory, relativity theory, field theory, mathematics of infinite series, vector and coordinate analysis, wave and particle theory, advanced applied calculus and geometry, analyses of continuum, cosmology, and statistical theory and analysis.



40C	CHEMISTRY, MATERIAL SCIENCE, AND CHEMICAL ENGINEERING	
40.0501	Chemistry, General.	A general program that focuses on the scientific study of the composition and behavior of matter, including its micro- and macro-structure, the processes of chemical change, and the theoretical description and laboratory simulation of these phenomena.
40.0502	Analytical Chemistry.	A program that focuses on the scientific study of techniques for analyzing and describing matter, including its precise composition and the interrelationships of constituent elements and compounds. Includes instruction in spectroscopy, chromatography, atomic absorption, photometry, chemical modeling, mathematical analysis, laboratory analysis procedures and equipment maintenance, and applications to specific research, industrial and health problems.
40.0503	Inorganic Chemistry.	A program that focuses on the scientific study of the elements and their compounds, other than the hydrocarbons and their derivatives. Includes instruction in the characterization and synthesis of non-carbon molecules, including their structure and their bonding, conductivity, and reactive properties; research techniques such as spectroscopy, X-ray diffraction, and photoelectron analysis; and the study of specific compounds, such as transition metals, and compounds composed of inorganic and organic molecules.
40.0504	Organic Chemistry.	A program that focuses on the scientific study of the properties and behavior of hydrocarbon compounds and their derivatives. Includes instruction in molecular conversion and synthesis, molecular synthesis and design, the molecular structure of living cells and systems, the mutual reactivity of organic and inorganic compounds in combination, the spectroscopic analysis of hydrocarbon compounds, and applications to specific problems in research, industry, and health.
40.0506	Physical Chemistry.	A program that focuses on the scientific study of understanding and predicting the behavior of chemical systems ranging from nuclear particles to atoms, molecules, clusters, biological materials and macroscopic assemblies. Includes instruction in quantum mechanics, spectroscopy, thermodynamics, statistical mechanics, reaction dynamics, group theory, collision theory, and polymer science.
40.0507	Polymer Chemistry.	A program that focuses on the scientific study of synthesized macromolecules and their interactions with other substances. Includes instruction in molecular bonding theory, polymerization, properties and behavior of unstable compounds, the development of tailored polymers, transition phenomena, and applications to specific industrial problems and technologies.



40.0508	Chemical Physics.	A program that focuses on the scientific study of structural phenomena combining the disciplines of physical chemistry and atomic/molecular physics. Includes instruction in heterogeneous structures, alignment and surface phenomena, quantum theory, mathematical physics, statistical and classical mechanics, chemical kinetics, and laser physics.
40.0509	Environmental Chemistry.	A program that focuses on the scientific study of natural systems (air, water, and soil) through the use of chemical techniques and instrumentation, with an emphasis on the movement and fate of pollutants and chemical aspects of contaminant remediation. Includes instruction in analytical, inorganic, organic, and physical chemistry; aquatic, soil, and atmospheric chemistry; environmental engineering; environmental toxicology; and analytical methods.
40.0511	Theoretical Chemistry.	A program that focuses on the study of mathematical and computational methods and fundamental laws of physics to describe chemical phenomena and to develop empirical models of molecules and their interactions. Includes instruction in properties of small, isolated molecules; dynamics of elementary chemical processes; reaction pathways of organic molecules; hydrogen bonding patterns in liquids; reaction rates of biological pathways; and advanced computational techniques.
40.0512	Cheminformatics/Chemistry Informatics.(added 2020)	A program that focuses on applying computer science approaches in the representation, analysis, design, and modeling of chemical structures and associated metadata, such as biological activity endpoints and physicochemical properties. Includes instruction in chemical information technology, computational chemistry, computer science, database design, molecular modeling, scientific computing, and statistics
40.1001	Materials Science.	A program that focuses on the general application of mathematical and scientific principles to the analysis and evaluation of the characteristics and behavior of solids, including internal structure, chemical properties, transport and energy flow properties, thermodynamics of solids, stress and failure factors, chemical transformation states and processes, compound materials, and research on industrial applications of specific materials.
40.1002	Materials Chemistry.	A program that focuses on the synthesis and study of organic or inorganic materials and their electronic, magnetic, optical or mechanical properties. Includes instruction in advanced materials for photonics, lasers, chemical sensors and arrays or nanochemistry; semiconductor nanowires; and molecular electronics.



14.0701	Chemical Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems employing chemical processes, such as chemical reactors, kinetic systems, electrochemical systems, energy conservation processes, heat and mass transfer systems, and separation processes; and the applied analysis of chemical problems such as corrosion, particle abrasion, energy loss, pollution, and fluid mechanics.
14.0702	Chemical and Biomolecular Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems at the interface of chemical engineering and biology, with an emphasis at the molecular level, such as biopharmaceutical processes, protein engineering, metabolic engineering, gene therapy, biomaterials, cell and tissue engineering, and drug delivery. Includes instruction in chemical engineering, thermodynamics, organic chemistry, biochemistry, momentum and heat transfer, cellular and molecular biotechnology, process design, and chemical reactor design.
14.1801	Materials Engineering.	A program that prepares individuals to apply mathematical and materials science principles to the design, development and operational evaluation of materials and related processes used in manufacturing in a wide variety of settings; the synthesis of new industrial materials, including marrying and bonding composites; analysis of materials requirements and specifications; and related problems of system design dependent on materials factors.
14.2501	Petroleum Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems for locating, extracting, processing and refining crude petroleum and natural gas, including prospecting instruments and equipment, mining and drilling systems, processing and refining systems and facilities, storage facilities, transportation systems, and related environmental and safety systems.
14.2801	Textile Sciences and Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of systems to test and manufacture fibers and fiber products, both synthetic and natural; to develop new and improved fibers, textiles and their uses; and to the analysis of related engineering problems such as structural factors, molecular synthesis, chemical manufacturing, weaves, strength and stress, useful life, dyes, and applications to composite systems.



14.3201	Polymer/Plastics Engineering.	A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of synthesized macromolecular compounds and their application to specific engineering uses, including the development of industrial materials with tailored properties, the design of lightweight structural components, the use of liquid or solid polymers, and the analysis and control of polymerization processes.
42	PSYCHOLOGY (added 2020)	
42.0101	Psychology, General	A general program that focuses on the scientific study of individual and collective behavior, the physical and environmental bases of behavior, and the analysis and treatment of behavior problems and disorders. Includes instruction in the principles of the various subfields of psychology, research methods, and psychological assessment and testing methods.
42.27	Research and Experimental Psychology.	Instructional content for this group of programs is defined in codes 42.2701 - 42.2799.
42.2801	Clinical Psychology.	A program that prepares individuals for the independent professional practice of clinical psychology, involving the analysis, diagnosis, and clinical treatment of psychological disorders and behavioral pathologies. Includes instruction in clinical assessment and diagnosis, personality appraisal, psychopathology, clinical psychopharmacology, behavior modification, therapeutic intervention skills, patient interviewing, personalized and group therapy, child and adolescent therapy, cognitive and behavioral therapy, supervised clinical practice, ethical standards, and applicable regulations.
42.2813	Applied Psychology.	A program that focuses on the application of psychological theories and methods to real-world settings and problems, such as business and industry, government, education, military, and community settings. Includes instruction in applications of psychology, industrial/organizational psychology, developmental psychology, social psychology, cognitive psychology, counseling, human factors, research methods and statistics, and program evaluation.
45	ECONOMICS AND SOCIAL SCIENCES	Instructional programs that focus on the systematic study of social systems, social institutions, and social behavior.
45.0101	Social Sciences, General.	A program that focuses on the general study of human social behavior and social institutions using any of the methodologies common to the social sciences and/or history, or an undifferentiated program of study in the social sciences.



45.0601	Economics, General.	A general program that focuses on the systematic study of the production, conservation and allocation of resources in conditions of scarcity, together with the organizational frameworks related to these processes. Includes instruction in economic theory, micro- and macroeconomics, comparative economic systems, money and banking systems, international economics, quantitative analytical methods, and applications to specific industries and public policy issues.
45.0602	Applied Economics.	A program that focuses on the application of economic principles and analytical techniques to the study of particular industries, activities, or the exploitation of particular resources. Includes instruction in economic theory; microeconomic analysis and modeling of specific industries, commodities; the economic consequences of resource allocation decisions; regulatory and consumer factors; and the technical aspects of specific subjects as they relate to economic analysis.
45.0603	Econometrics and Quantitative Economics.	A program that focuses on the systematic study of mathematical and statistical analysis of economic phenomena and problems. Includes instruction in economic statistics, optimization theory, cost/benefit analysis, price theory, economic modeling, and economic forecasting and evaluation.
45.0605	International Economics.	A program that focuses on the systematic study and analysis of international commercial behavior and trade policy. Includes instruction in international trade theory, tariffs and quotas, commercial policy, trade factor flows, international finance and investment, currency regulation and trade exchange rates and markets, international trade negotiation, and international payments and accounting policy.
52	BUSINESS, MANAGEMENT, AND MARKETING	Instructional programs that prepare individuals to perform managerial, technical support, and applied research functions related to the operation of commercial and non-profit enterprises and the buying and selling of goods and services.
52.0101	Business/Commerce, General.	A program that focuses on the general study of business, including the processes of interchanging goods and services (buying, selling and producing), business organization, and accounting as used in profit-making and nonprofit public and private institutions and agencies. The programs may prepare individuals to apply business principles and techniques in various occupational settings.



52.0201	Business Administration and Management, General.	A program that generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision-making.
52.0203	Logistics, Materials, and Supply Chain Management.	A program that prepares individuals to manage and coordinate all logistical functions in an enterprise, ranging from acquisitions to receiving and handling, through internal allocation of resources to operations units, to the handling and delivery of output. Includes instruction in acquisitions and purchasing, inventory control, storage and handling, just-in-time manufacturing, logistics planning, shipping and delivery management, transportation, quality control, resource estimation and allocation, and budgeting.
52.0205	Operations Management and Supervision.	A program that prepares individuals to manage and direct the physical and/or technical functions of a firm or organization, particularly those relating to development, production, and manufacturing. Includes instruction in principles of general management, manufacturing and production systems, plant management, equipment maintenance management, production control, industrial labor relations and skilled trades supervision, strategic manufacturing policy, systems analysis, productivity analysis and cost control, and materials planning.
52.0207	Customer Service Management.	A program that prepares individuals to supervise and monitor customer service performance and manage frontline customer support services, call centers/help desks, and customer relations. Includes instruction in customer behavior, specialized information technology and systems management, developing and using customer service databases, user surveys and other feedback mechanisms, strategic and performance planning and analysis, operations management, personnel supervision, and communications and marketing skills.
52.0208	E-Commerce/Electronic Commerce.	A program that prepares individuals to plan, manage, supervise, and market electronic business operations, products, and services provided online via the Internet. Includes instruction in business administration, information technology, information resources management, web design, computer and Internet law and policy, computer privacy and security, e-trading, insurance, electronic marketing, investment capital planning, enterprise operations, personnel supervision, contracting, and product and service networking.
52.0299	Business Administration, Management and Operations, Other.	Any instructional program in business and administration not listed above.



52.0301	Accounting.	A program that prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory, financial accounting, managerial accounting, cost accounting, budget control, tax accounting, legal aspects of accounting, auditing, reporting procedures, statement analysis, planning and consulting, business information systems, accounting research methods, professional standards and ethics, and applications to specific for-profit, public, and non-profit organizations.
52.0305	Accounting and Business/Management.	An integrated or combined program in accounting and business administration/management that prepares individuals to function as accountants and business managers.
52.0806	International Finance.	A program that prepares individuals to manage international financial operations and related currency transactions. Includes instruction in international banking, international monetary and financial policy, money and capital markets, foreign exchange, risk analysis, and international cash flow operations.
52.0901	Hospitality Administration/Management, General.	A program that prepares individuals to serve as general managers and directors of hospitality operations on a system-wide basis, including both travel arrangements and promotion and the provision of traveler facilities. Includes instruction in principles of operations in the travel and tourism, hotel and lodging facilities, food services, and recreation facilities industries; hospitality marketing strategies; hospitality planning; management and coordination of franchise and unit operations; business management; accounting and financial management; hospitality transportation and logistics; and hospitality industry policies and regulations.
52.0903	Tourism and Travel Services Management.	A program that prepares individuals to manage travel-related enterprises and related convention and/or tour services. Includes instruction in travel agency management, tour arranging and planning, convention and event planning, travel industry operations and procedures, tourism marketing and promotion strategies, travel counseling, travel industry law, international and domestic operations, and travel and tourism policy.
52.0904	Hotel/Motel Administration/Management.	A program that prepares individuals to manage operations and facilities that provide lodging services to the traveling public. Includes instruction in hospitality industry principles; supplies purchasing, storage and control; hotel facilities design and planning; hospitality industry law; personnel management and labor relations; financial management; marketing and sales promotion; convention and event management; front desk operations; and applications to specific types of hotels and motel operations.



52.1001	Human Resources Management/Personnel Administration, General.	A program that generally prepares individuals to manage the development of human capital in organizations, and to provide related services to individuals and groups. Includes instruction in personnel and organization policy, human resource dynamics and flows, labor relations, sex roles, civil rights, human resources law and regulations, motivation and compensation systems, work systems, career management, employee testing and assessment, recruitment and selection, managing employee and job training programs, and the management of human resources programs and operations.
52.1099	Human Resources Management and Services, Other.	Any instructional program in human resources management not listed above.
52.1101	International Business/Trade/Commerce.	A program that prepares individuals to manage international businesses and/or business operations. Includes instruction in the principles and processes of export sales, trade controls, foreign operations and related problems, monetary issues, international business policy, and applications to doing business in specific countries and markets.
52.1401	Marketing/Marketing Management, General.	A program that generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. Includes instruction in buyer behavior and dynamics, principle of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaign and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing, and applications to specific products and markets.
52.1402	Marketing Research.	A program that prepares individuals to provide analytical descriptions of consumer behavior patterns and market environments to marketing managers and other business decision-makers. Includes instruction in survey research methods, research design, new product test marketing, exploratory marketing, consumer needs and preferences analysis, geographic analysis, and applications to specific products and markets.
52.1403	International Marketing.	A program that prepares individuals to perform marketing activities in enterprises primarily engaged in exporting or importing goods and services in world markets. Includes instruction in international trade controls, foreign trade operations, locating markets, negotiation practices, monetary issues, and international public relations.
52.1499	Marketing, Other.	Any instructional program in general marketing and marketing research not listed above.



52.1801	Sales, Distribution, and Marketing Operations, General.	A program that focuses on the general process and techniques of direct wholesale and retail buying and selling operations and introduces individuals to related careers. Includes instruction in the principles of entrepreneurial economics, basic sales skills, the distribution channels for goods and services, and supervised practical application experiences.
ANY	Any	Means any field of study.
OTHER	Other	Allows textual entry of the field of study specialization.

Idiomas

El idioma oficial de IAESTE es el **inglés**, se recomienda que esta sea la única lengua exigida cuando el entorno profesional así lo permita.

En las ocasiones en que no sea posible el desempeño en inglés, la empresa podrá solicitar que el estudiante tenga un nivel de español mínimo, y deberá constar como una condición obligatoria.

En el caso excepcional de que la empresa requiera cualquier otro idioma deberá consultarlo con el responsable o contacto de IAESTE. Recuerde que la restricción a ciertos idiomas puede entrar en conflicto con la especialidad académica solicitada.

El campo idioma siempre exige se indique el carácter "obligatorio, opcional o recomendado" de éste. Siempre debe haber un idioma obligatorio con un máximo de 2 idiomas obligatorios.

Los niveles pueden ser (1) Excelente, (2) Bueno y (3) Básico. En el caso de solicitar varios idiomas opcionales, el candidato deberá acreditar el conocimiento de al menos uno de ellos.

Categorías

Tradicionalmente IAESTE utiliza la siguiente clasificación para las distintas prácticas: "Scientific", "Professional", y "Non Specific". La categoría "Scientific" hace referencia generalmente a trabajo científico tal como investigación y desarrollo, "Professional" es usado para actividades profesionales, tales como diseño práctico o supervisión de proyectos.

Las prácticas de tipo "Scientific" y "Professional" son las preferidas por los estudiantes, tanto por la importancia y actividad que conlleva como por su peso al incluirlas en su currículum.

Otros requisitos

En este apartado se puede incluir cualquier otro requisito a cumplir por el estudiante que se considere relevante, como: conocimientos específicos, aplicaciones informáticas, restricciones de nacionalidad a un país, varios países o grupo de países, etc.

Respecto a las restricciones de nacionalidad, los estudiantes deberán pertenecer a los países miembros de IAESTE que figuran a continuación:



PAISES MIEMBROS IAESTE Asbl

- | | | |
|----------------------------|-----------------|----------------------------|
| 1. AFGHANISTAN | 29. GREECE | 60. PERÚ |
| 2. ARGENTINA | 30. HUNGARY | 61. PHILIPPINES |
| 3. AUSTRALIA | 31. ICELAND | 62. POLAND |
| 4. AUSTRIA | 32. INDIA | 63. PORTUGAL |
| 5. BANGLADESH | 33. INDONESIA | 64. QATAR |
| 6. BELARUS | 34. IRAN | 65. ROMANIA |
| 7. BELGIUM | 35. IRAQ | 66. RUSSIA |
| 8. BOLIVIA | 36. ISRAEL | 67. SAUDI ARABIA |
| 9. BOSNIA &
HERZEGOVINA | 37. JAMAICA | 68. SERBIA |
| 10. BRAZIL | 38. JAPAN | 69. SLOVAKIA |
| 11. CANADA | 39. JORDAN | 70. SLOVENIA |
| 12. CHILE | 40. KAZAKHSTAN | 71. SOUTH AFRICA |
| 13. CHINA HONG
KONG | 41. KENYA | 72. SPAIN |
| 14. CHINA MACAO | 42. KOREA | 73. SRI LANKA |
| 15. CHINA
MAINLAND | 43. KUWAIT | 74. SWEDEN |
| 16. COLOMBIA | 44. LEBANON | 75. SWITZERLAND |
| 17. CROATIA | 45. LUXEMBOURG | 76. SYRIA |
| 18. CYPRUS | 46. MACEDONIA | 77. TAJIKISTAN |
| 19. CZECH REPUBLIC | 47. MALTA | 78. TANZANIA |
| 20. DENMARK | 48. MEXICO | 79. THAILAND |
| 21. DPR KOREA | 49. MONGOLIA | 80. TUNISIA |
| 22. ECUADOR | 50. NEPAL | 81. TURKEY |
| 23. EGYPT | 51. NETHERLANDS | 82. UKRAINE |
| 24. FINLAND | 52. NEW ZEALAND | 83. UNITE ARAB
EMIRATES |
| 25. FRANCE | 53. NICARAGUA | 84. UNITED
KINGDOM |
| 26. GAMBIA | 54. NIGERIA | 85. UNITED STATES |
| 27. GERMANY | 55. NORWAY | 86. UZBEKISTAN |
| 28. GHANA | 56. OMAN | 87. VIETNAM |
| | 57. PAKISTAN | 88. YEMEN |
| | 58. PALESTINE | |
| | 59. PANAMA | |



Número de semanas

La duración de las prácticas oscila entre un **mínimo de 6 semanas y un máximo de 52 semanas**.

Periodo propuesto para el comienzo de la práctica

Las prácticas pueden llevarse a cabo desde el mes de enero de 2021 al mes de diciembre de 2021, sin perjuicio de que puedan desarrollarse en otras fechas. Este periodo debe abarcar un número de semanas igual o superior al número máximo de semanas ofrecidas. Conviene que sea lo más amplio posible para que el estudiante pueda adaptar la práctica a su periodo lectivo. Se recomiendan los meses de julio, agosto y septiembre, pues así no se interrumpe el curso académico.

Periodo de cierre por vacaciones

Sólo debe indicarse en el caso de que la entidad cierre por vacaciones y **no** sea posible la remuneración del estudiante en ese periodo. Si las vacaciones no son remuneradas la práctica deberá realizarse en su totalidad antes o después del periodo vacacional.

Dotación económica

La dotación mínima será de 650 € netos mensuales a cargo de la empresa

1 mes= 30 días

Esta cantidad puede reducirse si la entidad facilita prestaciones adicionales: el alojamiento y/o la manutención del estudiante, en las siguientes cantidades:

Alojamiento 60,00 € netos/semana

Manutención

Modalidad	7 días/semana	5 días/semana
Desayuno + 2 comidas	54,00 € netos	45,00 € netos
2 comidas	48,00 € netos	40,00 € netos
1 comida	24,00 € netos	20,00 € netos

En el caso de que la entidad desee procurar el alojamiento al estudiante deberá indicarlo. En caso contrario, IAESTE lo gestionará, siendo costeadado por el estudiante.



Ventajas de IAESTE

Las ventajas del programa internacional de intercambio IAESTE son evidentes en nuestro entorno económico actual que tiende a la globalización. Algunas ventajas concretas de colaborar con IAESTE son:

- Establecen lazos con personas que contribuyen a difundir su imagen internacional y que pronto se dedicarán en su trabajo profesional a los mismos sectores industriales.
- Reciben a futuros licenciados superiores de universidades extranjeras que pueden aportarles sus conocimientos, nuevas ideas y métodos.
- Proporcionan a estudiantes españoles la oportunidad de completar su formación académica con experiencia práctica en entidades de otros países.
- Estrechan vínculos de colaboración Universidad-Empresa.
- Contribuyen a la mejora tecnológica de las Entidades aportando recursos humanos universitarios.
- Permiten promover vínculos a nivel internacional con futuros profesionales.
- Permiten a potenciales usuarios del exterior el conocimiento de la economía española y sus capacidades.
- Aumentan la motivación del grupo de trabajo al incorporar a un joven entusiasta con fuertes deseos de colaborar y aprender.
- Pueden servir para realizar un proyecto corto del que nadie puede encargarse, con soluciones técnicas y competentes.
- Por cada estudiante extranjero empleado por una compañía española un estudiante de nuestro país recibe a su vez formación y entrenamiento en el extranjero, lo que implica una mejor preparación profesional y un aporte concreto al desarrollo de los recursos humanos del país.
- Facilitan la inserción laboral del estudiante; las empresas tienden a seleccionar primero a un estudiante que haya estado un tiempo en una empresa, ya que tiene un primer conocimiento de "la cultura de empresa".
- Las prácticas IAESTE no sólo son interesantes por el hecho de que el alumno empieza a aplicar sus conocimientos adquiridos en la Universidad a un entorno real, sino que además, le sirven como desarrollo personal en el entorno empresarial al que se incorporará definitivamente en un corto plazo.
- Para la Entidad, el tener un alumno universitario en prácticas impone su implicación en la cualificación de los recursos humanos de los que se va a



nutrir en un futuro, con la ventaja que impone a la hora de contar con una persona el modo de que ya conozca el funcionamiento de una organización.

- Facilitan el aprendizaje y práctica de idiomas, tanto para el estudiante como para los empleados de la entidad, así como el intercambio cultural.
- En nuestra sociedad actual, altamente tecnificada y globalizada, la experiencia de trabajo internacional es muy valorada por las empresas de todo el mundo.
- Pueden servir para efectuar una selección de personal, cuyo talento y capacidades pueden ser comprobadas in situ por la entidad.
- Al regresar a su país, los estudiantes en prácticas se convierten de hecho en "embajadores" de la empresa.
- Por su propia naturaleza, los estudiantes que participan en el programa son gente con amplitud de miras, con iniciativa, entusiastas, interesados en la cultura local, y dispuestos a aprender nuevos idiomas y costumbres.
- Proporcionan a los estudiantes españoles que visitan las entidades para obtener prácticas un primer contacto con el mundo de la empresa y sus necesidades. Esto resulta muy positivo y enriquecedor para su formación y experiencia personal.

Esta labor, de alto interés nacional y humano, sin duda revertirá en beneficio de nuestro país, de sus industrias y de sus técnicos.

Obligaciones de la Entidad

Como institución que colabora con IAESTE, deberá proporcionar al becario:

- ☒ Supervisión y un plan de trabajo.
- ☒ Proveer un espacio físico al becario.
- ☒ Dotación económica. La empresa determinará la cantidad que percibirá el becario, siendo el mínimo establecido por IAESTE **650 € netos mensuales**, cantidad suficiente para cubrir gastos de alojamiento y manutención.

Los costes derivados de la afiliación del estudiante a la Seguridad Social y el importe de las retenciones practicadas según del Impuesto sobre la Renta de no Residentes, irán a cargo de la empresa, sin que dichos importes disminuyan la cuantía líquida a percibir por el estudiante y especificada en la oferta de prácticas (Form-O).

- ☒ En base a la Disposición adicional decimoctava del Real Decreto Ley 11/2018, la empresa deberá solicitar la Autorización de Residencia para prácticas mediante convenio a través de la Subdelegación de Gobierno correspondiente, por medios electrónicos, y solo para aquellos estudiantes extracomunitarios con estancia superior a 90 días.
- ☒ Debido a la situación actual generada por la pandemia, y con el fin de intentar solucionar los problemas que actualmente se están produciendo en la obtención del número de Seguridad Social por parte de aquellas personas que no pueden efectuar dicho trámite por la Sede electrónica, se ha abierto la posibilidad de que los autorizados al sistema RED (LAS EMPRESAS) realicen dicha solicitud a través de CASIA en relación con los trabajadores respecto de los cuales van a comunicar con posterioridad su alta. Para ello, se ha creado un nuevo trámite, "Solicitud de número de Seguridad Social", que se encuentra ya disponible dentro de las subcategorías correspondientes a los



trámites de Afiliación, altas y bajas < Altas de trabajadores cuenta ajena.

La documentación que deberá acompañar a dicho solicitud será la siguiente:

- TA.1 firmado por el becario, pasaporte o NIE y, en su caso, certificado de la condición de discapacidad.

- ☒ Evaluación de la práctica al término de la estancia del becario.
(Employer's report, formulario que les remitiremos a su debido tiempo)

Con objeto de facilitar la integración del estudiante con el resto de la plantilla, se recomienda que su mentor o supervisor le presente al resto de compañeros el primer día de incorporación, así como discutir las expectativas de esta práctica para ambas partes.



Seguros, Legislación Laboral e Impuestos

Seguros

Todos los estudiantes vienen cubiertos por un seguro internacional de accidentes, enfermedad y repatriación en caso de enfermedad grave o fallecimiento, no teniendo que cubrir la Entidad estos riesgos.

Legislación Laboral e Impuestos

Tras la Sentencia de 21 de mayo de 2013, de la Sala Tercera del Tribunal Supremo, por la que se anula el Real Decreto 1707/2011, de 18 de noviembre, por el que se venían regulando las prácticas académicas externas de los estudiantes universitarios, y publicada en el BOE n.154 de fecha 28 de junio de 2013, a partir de ese momento entrará en vigor de nuevo el RD 1493/2011 de 24 de octubre.

I.-ÁMBITO DE APLICACIÓN Y CONTENIDO DEL RD 1493/2011 POR EL QUE SE REGULAN LOS TÉRMINOS Y LAS CONDICIONES DE INCLUSIÓN EN EL RÉGIMEN GENERAL DE LA SEGURIDAD SOCIAL DE LAS PERSONAS QUE PARTICIPEN EN PROGRAMAS DE FORMACIÓN

A) ÁMBITO DE APLICACIÓN

El Real Decreto 1493/2011 de 24 de octubre que ha sido aprobado en desarrollo de lo previsto en la disposición adicional tercera de la Ley 27/2011, de 1 de agosto, sobre actualización, adecuación y modernización del Sistema de Seguridad Social, a fin y efecto de determinar los mecanismos de inclusión en la Seguridad Social de los participantes en los programas de formación financiados por entidades u organismos públicos o privados, que, vinculados a estudios universitarios o de formación profesional, conlleven contraprestación económica para los afectados, siempre que, en razón de la realización de dichos programas, y conforme a las disposiciones legales en vigor, no viniesen obligados a estar de alta en el respectivo régimen de la Seguridad Social.



El Artículo 1 de dicho Real Decreto, estipula:

"1. Quedan asimilados a trabajadores por cuenta ajena, a efectos de su inclusión en el Régimen General de la Seguridad Social, quienes participen en programas de formación financiados por entidades u organismos públicos o privados que, vinculados a estudios universitarios o de formación profesional, no tengan carácter exclusivamente lectivo sino que incluyan la realización de prácticas formativas en empresas, instituciones o entidades y conlleven una contraprestación económica para los afectados, cualquiera que sea el concepto o la forma en que se perciba, siempre que la realización de dichos programas no dé lugar a una relación laboral, que determine su alta en el respectivo régimen de la Seguridad Social."

De acuerdo con la anterior regulación, las actividades que entran a formar parte del ámbito de aplicación del Real Decreto y por consiguiente quedan asimiladas a la situación de trabajadores por cuenta ajena, deben reunir los siguientes requisitos

- Participar en programas de formación vinculados a estudios universitarios o de formación profesional.
- Financiación por entidades u organismos públicos o privados.
- Realización de prácticas formativas en empresas, instituciones o entidades
- Contraprestación económica para los afectados, cualquiera que sea el concepto o la forma en que se perciba
- Inexistencia de relación laboral

La actividad de IAESTE ESPAÑA se fundamenta en la oferta y tramitación de prácticas de carácter internacional a estudiantes de especialidades técnicas, o a empresas nacionales que accedan a acoger futuros profesionales extranjeros.

Las características de las prácticas en empresas que se realizan al amparo de la actividad de IAESTE, son las siguientes:

- Están vinculadas a estudios universitarios de especialidad técnica.
- Están remuneradas, asegurándose unos ingresos mínimos para el estudiante que le permitan hacer frente al coste de vida del país de destino, calculándose la retribución mínima a partir del Producto Interior Bruto de cada país.
- La relación entre el estudiante y la empresa se incluye dentro del ámbito de aplicación del RD 1497/1981, de 19 de junio, sobre Programas de Cooperación Universitaria, por lo que la misma no reúne las características de una relación laboral.

En virtud de lo expuesto, cabe concluir que las prácticas en empresas que se realizan por



estudiantes universitarios al amparo de la actividad de IAESTE ESPAÑA quedan incluidas en el ámbito de aplicación del RD 1493/2011, y por consiguiente, las mismas deberán cumplir las obligaciones que se contienen en dicha norma, y que se detallarán en el siguiente apartado.

B) CONTENIDO

La principal consecuencia de la entrada en vigor del Real Decreto es que los estudiantes afectados por su regulación pasan automáticamente a tener la condición de asimilados a trabajadores por cuenta ajena, a los efectos de su inclusión en el Régimen General de la Seguridad Social y de las consecuencias que de dicha situación se derivan en cumplimiento de la normativa establecida en la Ley General de la Seguridad Social y las normas que la desarrollan.

Consecuentemente, tal y como se regula en el artículo 5 del Real Decreto, se considerará EMPRESARIO/EMPLEADOR a la entidad u organismo que financie el programa de formación o, en el supuesto en que éste se financie por dos o más entidades, aquél al que corresponda la obligación de hacer efectiva la contraprestación económica al estudiante.

En atención a lo anterior, es importante determinar cuáles son las obligaciones en materia de Seguridad Social que deberá cumplir en cada caso el empresario/empleador, y que son las siguientes:

a) Solicitar un Código de Cuenta de Cotización (CCC) específico

El empleador/empresario –es decir, el encargado de financiar el programa de formación del estudiante universitario-, deberá solicitar ante la Administración de la Seguridad Social que corresponda a su domicilio, que le sea asignado un **Código de Cuenta de Cotización específico con el valor 986** en el campo del tipo de relación laboral, para poder dar de alta a los estudiantes que estén realizando las prácticas bajo su financiación. Para ello se deberá presentar el Modelo TA.6 o TA.7 facilitado por la Seguridad Social, debidamente rellenado, junto con la documentación que les sea solicitada por su Administración, destinada a acreditar los datos de identificación, actividad económica y personalidad jurídica de la empresa.

b) Tramitar la afiliación y/o la comunicación del alta en el Régimen General de la Seguridad Social de los estudiantes, con antelación al inicio de las prácticas.

• AFILIACIÓN

El trámite de la afiliación del estudiante en la Seguridad Social deberá realizarse de forma previa a la comunicación de alta. El comité local de IAESTE se encargará de asistir en todo momento al estudiante para la obtención del número de afiliación a la Seguridad Social.

Debido a la situación actual del COVID-19 en nuestro país, y con el fin de intentar solucionar los problemas que actualmente se están produciendo en la obtención del número de Seguridad Social por parte de aquellas personas que no pueden efectuar dicho trámite por la Sede electrónica, se ha abierto la posibilidad de que los autorizados al sistema RED (LAS EMPRESAS) realicen dicha solicitud a través de CASIA en relación con los trabajadores respecto de los cuales van a comunicar con posterioridad su alta. Para ello, se ha creado un nuevo trámite, "Solicitud de número de Seguridad Social", que se encuentra ya disponible dentro de las subcategorías correspondientes a los trámites de Afiliación, altas y bajas < Altas de trabajadores cuenta ajena.

La documentación que deberá acompañar a dicho solicitud será la siguiente:

- TA.1 firmado por el becario, pasaporte o NIE y, en su caso, certificado de la condición de discapacidad**

• ALTA

Una vez la empresa disponga del CCC específico y del número de Afiliación del estudiante extranjero, el alta en el Régimen General de la Seguridad Social de los estudiantes se deberá realizar mediante el mismo procedimiento que el de un trabajador por cuenta ajena, realizando el trámite ante la Seguridad Social presencialmente o a través del Sistema Red.

c) Tramitar la baja en el Régimen General de la Seguridad Social de los estudiantes, en el momento en que finalicen las prácticas y regularizar la situación de los estudiantes que tengan un Convenio de prácticas vigente en el momento de entrada en vigor del Real Decreto

El empresario deberá formalizar la baja del estudiante en la Seguridad Social, dentro de los 6 días naturales posteriores a la fecha de finalización de las prácticas, mediante el mismo procedimiento que en el caso de un trabajador por cuenta ajena.



d) Realizar mensualmente la tramitación e ingreso de la cotización a la Seguridad Social por contingencias comunes y profesionales de acuerdo con las reglas correspondientes a los contratos para la formación y el aprendizaje.

El empresario que haya formalizado el alta del estudiante/es que esté realizando las prácticas bajo su financiación, deberá realizar la tramitación de la correspondiente cotización a la Seguridad Social mediante el envío mensual de la relación nominal de trabajadores y el abono de las cotizaciones aplicando las reglas de cotización específicas de los contratos de formación y aprendizaje. No existe la obligación de cotizar por la contingencia de paro, FOGASA ni Formación Profesional.

El ingreso se realizará en virtud de una cuota fija total **aprox. De 40,56€ mensuales** por trabajador, de los siguientes importes:

	Contingencias Comunes	Contingencias Profesionales
Empresa	30,34 €/mes	4,17€/mes
Trabajador	6,05€/mes	

BONIFICACIÓN EN LA COTIZACIÓN A LA SEGURIDAD SOCIAL

Real Decreto-ley 8/2014, de 4 de julio. Disposición adicional vigesimoquinta Bonificación en la cotización a la Seguridad Social por las prácticas curriculares externas de los estudiantes universitarios y de formación profesional

Las prácticas curriculares externas realizadas por los estudiantes universitarios y de formación profesional, que tienen el carácter exclusivamente de asimilados a trabajadores por cuenta ajena a efectos de su integración en el Régimen General de la Seguridad Social de conformidad con lo previsto en la disposición adicional tercera de la Ley 27/2011, de 1 de agosto, sobre actualización, adecuación y modernización del sistema de la Seguridad Social, desarrollada por el Real Decreto 1493/2011, de 24 de octubre, por el que se regula los términos y las condiciones de inclusión en el Régimen General de la Seguridad Social de las personas que participen en programas de formación, tendrán una bonificación del cien por cien en la cotización a la Seguridad Social a partir del día 1 de agosto de 2014.



RETENCIÓN RETRIBUCIONES ESTUDIANTES NO RESIDENTES

En base a las últimas notificaciones de la Agencia Tributaria y en aplicación de la Ley del Impuesto sobre la Renta de no Residentes, todas las rentas del trabajo obtenidas por una **persona no residente**, independientemente de su país de origen y de la existencia de convenio de doble imposición con su país, deben quedar grabadas con una retención, en el **año 2019, del 24%, siendo el porcentaje del 19% si el perceptor es residente en Unión Europea, Islandia y Noruega, salvo modificaciones posteriores.**

Los costes derivados de la afiliación del estudiante a la Seguridad Social y el importe de las retenciones practicadas según del Impuesto sobre la Renta de no Residentes, irán a cargo de la empresa, sin que dichos importes disminuyan la cuantía líquida a percibir por el estudiante y especificada en la oferta de prácticas (Form-O). Dependiendo de si las prácticas externas sean curriculares o extracurriculares, y en base a una dotación económica de 650 euros netos mensuales, el coste final para la empresa sería el siguiente:

-Prácticas Extracurriculares para no residentes en Unión Europea, Islandia, Noruega o Suiza 874,72€

-Prácticas Curriculares (con bonificación en la cotización a la seguridad social) para no residentes en Unión Europea, Islandia, Noruega o Suiza

840,00€

-Prácticas Extracurriculares para Unión Europea, Islandia, Noruega o Suiza

825,72€

-Prácticas Curriculares (con bonificación en la cotización a la seguridad social) para Unión Europea, Islandia, Noruega o Suiza

791,00€



Dónde dirigirse

Estamos a su disposición para resolver cualquier duda sobre el funcionamiento de IAESTE en la siguiente dirección:

IAESTE - España

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Camino de Vera, s/n.

46022 VALENCIA

Tel. 963 699 480

Email: office@iaeste.es

<http://www.iaeste.es>

Horario de atención telefónica:

Lunes- viernes de 9:00 a 14:00 horas

Martes y jueves tarde de 16:00 a 18:00 horas