

FACULTY OF PETROLEUM STUDIES



VITAE DISCIMUS

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EUROPEAN GLOBAL SCHOOL - UNIVERSITY[®]

The Place To Be For Energy Professionals

Overview

European Global School- University has a universal perspective, approach and international collaborations as well as strong academic staff. Succeeding in transferring this academic substructure to the professional circle and life, we are aware of our responsibilities for training people who adopt the scientific thought system, who are ethical, social, productive, questioning and sensitive and who can add value to the world by representing our country successfully in the international arena.

With the emerging superpowers, China and India, beginning to compete for a larger share of the world's energy resources, more countries have responded by seeking to develop their own natural resources, intensifying competition and increasing the demand for highly skilled professionals and managers in this rapidly expanding sector of the global economy.

The Department of Petroleum Studies aims to provide advanced teaching and research facilities to the students to enable them to create and apply innovative technologies in drilling, production, technology and management.

There is a need in the oil sector for high skills and specialized labour that can deal with the high technology used in this sector, which has a huge diversity of professions required. From engineers, technicians and workers, to the management of business, marketing, selling, and informatics. Which means that there is high demand for specialized degrees in universities and institutes, allowing students to engage in this sector in the future.

Accreditation & Professional Recognition

The course is fully accredited by the Energy Institute, which means that, on successful completion, you will have met the entry requirement for working towards MEI chartered professional status for the Energy Institute. Course content associated with the health and safety module has also been structured to mirror the Institute of Occupational Health and Safety (IOSH) syllabus on Managing Safely. On successful completion, in addition to your degree, this will offer you an opportunity to receive a professional certification: Managing Safely in the Oil, Gas and Energy Industry Certificate.



THE NEED FOR ENERGY IN INCREASE!



EGS – University Accreditation

Rectorat de Paris - Ministry of Higher Education & Research, France

European Global School is “est un établissement privé d’enseignement supérieur ouvert au titre du Code de l’Education – Decret du 25 janvier 1876 – Article L. 731-2, L. 731-3 et L. 731-4 sous le numéro E 13-09” recognized as a private establishment of higher education in France with an official status from the French Ministry of Education to award Bachelors, Masters and PhD degrees. The UAI (*unité administrative immatriculée*) is 0755835K.

Accreditation

ASIC - Accreditation Service for International Colleges UK

European Global School is fully accredited by ASIC
(Accreditation Service for International Colleges).

ASIC is an educational accreditation agency recognized by British Home Office and UK Border Agency. In addition it is a member or affiliate of the following organizations:

1. National Academic Recognition Information Center (UK NARIC)
2. European Association for Quality Assurance in Higher Education (ENQA)
3. Council for Higher Education Accreditation CHEA International Quality Group.
4. NAFSA
5. British Quality Foundation (BQF)
6. The British Council
7. United Nations Academic Impact



Why Study In Istanbul?

- ★ Experience a culture rooted in thousands of years of history and influenced by countless civilizations.
- ★ Live in a beautiful waterfront city, the only city in the world to span two continents.
- ★ Enjoy the city's natural beauty and deep history, one of the most fascinating and attractive cities in the world.
- ★ Benefit from Istanbul's mixture of culture, art, and religion from both east and west.

The Istanbul program is ideal for students who are interested in studying in a city rich in nature, history, and culture at the literal crossroads of the world, where Europe meets Asia. Named the 2010 European Capital of Culture, Istanbul is an excellent location to study and immerse in a culture that is simultaneously ancient and modern. Istanbul is the largest city in Turkey, and the third-largest in the world, and its 5,000 years of culture and history commingles with a modern, vibrant, cosmopolitan energy.

EGS UNDERGRADUATE PROGRAMS

The strength of The EGS education lays our teaching methods that combine theory, practice and a capstone experience with a broad general education program that provides breadth of knowledge and the development of life-long learning skills. Add to this, the opportunity for practical experience through fieldwork courses and internships and an EGS degree prepares you for further study or work.

Skills for Life-long Learning

All EGS degree students develop and achieve the following skills through the General Education program: Writing, Quantitative and Scientific Reasoning, Information Technology, Information Literacy and Oral Presentation. These skills are honed in applications in their major courses. Through a broad array of minors, fieldwork and internships related to current interests and future careers and capstone experiences in the senior year.



ABILITIES

The faculty and staff of EGS have deemed the following abilities to be central to the personal and professional success of all graduates:

Communication:

The ability to utilize oral, written and listening skills to effectively interact with others.

Quantitative Reasoning:

The ability to understand and apply mathematical concepts and models.

Inquiry and Analysis:

The ability to process and apply theoretical and ethical bases of the arts, humanities, natural and social science disciplines.

Aesthetic Engagement:

The ability to develop insight into the long and rich record of human creativity through the arts to help individuals place themselves within the world in terms of culture, religion, and society.

Diversity:

The ability to understand and articulate the importance and influence of diversity within and among cultures and societies.

Technical Literacy:

The ability to use technology and understand its value and purpose in the workplace

Critical Thinking:

The ability to understand thinking that is responsive to and guided by intellectual standards such as relevance, accuracy, precision, clarity, depth, and breadth.

Effective Citizenship:

The ability to commit to standards of personal and professional integrity, honesty and fairness.

ASSOCIATE DEGREE

EGS offer an associate's degree in applied science and technology, which is necessary for jobs like geological and petroleum technician. Students who need to work while in school may consider an associate's degree a good starting point. This degree typically includes courses in science, math, and technology as well as general-education classes such as English and history.

Associate degree duration: 2 years

Credit hours: 60 credits

- ★ Associate of Applied Science in Oil and Gas Production Technology
- ★ Associate of Applied Science Petroleum Geology
- ★ Associate of Science Oil and Gas Safety
- ★ Associate of Science Petroleum management

Bachelor's Degree

Bachelor's degree duration: 3 years

Credit hours : 99 – 130 credits

- ★ Bachelors of science in Petroleum Geology
- ★ Bachelors of science in Oil and Gas Safety
- ★ Bachelors of science in Oil and Gas Technology
- ★ Bachelors of science in Petroleum management



EGS GRADUATE PROGRAMS

Master's Degree

Master's degree duration: 1 year

Credit hours : 35 credits

- ★ Masters in Risk and Safety Engineering Management (For oil and Gas)
- ★ Masters in Petroleum management
- ★ Master of Science in Petroleum Studies

Major of Applied Science in Oil and Gas Production Technology

Available degrees in the major

Associate degree duration: 2 years

Credit hours : 70 credits

Learning Outcomes:

Recipients of an Associate of Applied Science in Oil and Gas Production Technology will be able to:

Relate the processes which lead to the geological origins of oil and gas and the process of its accumulation within the earth's crust.

Explain the procedures and evaluate the options for fossil fuel exploration, drilling, well completion, production, recovery, and processing.

Discuss all subject matter using industry terminology and prepare written summaries of industry issues.

Demonstrate competent operational ability for basic electrical equipment, hydraulics, pneumatics, and fluid dynamics equipment; pumps and compressors, oil and gas instrumentation equipment; and oil and gas processing equipment.

Understand well analysis processes and procedures, the well decision process, the economics of production and recovery.

Perform work functions within the regulatory, quality, and safety systems established for the industry.

Required courses for the Associate of Applied Science in Oil and Gas Production Technology.

Courses:

Basic Field Safety Orientation
(Safe Land Certification)

Intro to the Exploration and Production of Oil and Gas.

Drilling Complex Wells.

Well Completions and Work overs.

Basic Electricity and Laboratory.

Pumps and Pump Applications.

Internship - Oil and Gas Technology/Technician.

Oil and Gas Instrumentation and Lab.

Composition and Rhetoric I.

Production and Recovery I.

Production and Recovery II.

Safety Regulations and Hazwoper 40 Safety Certification.

Regulatory Issues for the Oil and Gas Industry.

Field Processing of Oil and Gas.

State and Local Government.



Major of Applied Science in Petroleum Geology

Available degrees in the major

Associate degree duration: 2 years

Credit hours: 60 credits

Bachelor's degree duration: 3 years

Credit hours: 120 credits.

Geology and earth sciences bring together aspects of chemistry, physics, geography and mathematics. These subjects increase our understanding of the planet we live on by the study of the past and the present as a key to future changes. Petroleum geologists determine where to drill for oil by studying the structure of rocks and minerals located beneath the surface of the Earth. This degree gained more demand recently as the growing oil and gas industry all over the world requires employees with the technical skills to master horizontal drilling and other new methodologies.

Courses required for Major of Applied Science in Petroleum Geology

Courses:

Mineralogy

Seismic Data Interpretation 2

Internal Earth Processes 2

Probability and Statistics 3

Properties of Matter 2

Palaeontology 2

Petrology 3

Geology of African Region

Heat & Thermodynamics 3

Electricity and Magnetism 3

Environmental Geology 2

Field Geology and Surveying 3

Remote Sensing 2

Geographic Information Systems

Sedimentary Petrology 2

Introduction to Petroleum Geology 3

Material Science 2

Rock Mechanics and Fluid Physics 3

Computing and Geostatistics 3

Petroleum Geophysics 2

Introduction to Petroleum Engineering 2

Well Logging 3

Analytical Separation Techniques

Oil and Gas Policy and Environmental Law 3

Petroleum Geochemistry 3

Sociology and Ethics in Petroleum Industry 3

Electromagnetic and Radiometric Methods

Regulation in the Oil and Gas Industry 2

Safety and Reliability Analysis 3

Petroleum Production Methods 3

Petroleum Refining and Transportation 2

Management Of Petroleum Operations 3



Major of Science in Oil and Gas Safety

Available degrees in the major

Associate degree duration: 2 years

Credit hours : 60 credits

Bachelor's degree duration: 3 years

Credit hours : 99 credits

The development and application of emerging technologies within the often contradictory constraints of safety, economy and the law is addressed within this course. If you are aiming for a senior role in safety for oil and gas industry, this is the course for you. You'll gain a thorough grasp of the fundamentals of safety. Practical experience in the use of state-of-the-art techniques for the study of safety engineering systems, together with an understanding of the necessary scientific, engineering and technological principles.

This program teach in the specific area of safety technology, reliability technology, and loss prevention it brings together those topics relating to the safety and reliability of engineering products and systems, including the legislative framework, in a unified approach.

The aim is to provide an opportunity to develop a career in safety and reliability and risk management. There is a continuing high demand for people with specialist knowledge in these areas. This is partly a result of the new legal requirements to assess and control industrial risks to people and the environment, and partly because of the need to create high integrity engineering systems in many industries for example, in the offshore, energy, transport, aerospace and process industries.



Courses required for Major of Science in Oil and Gas Safety

Major Courses

Introduction to Oil and Gas Engineering

Introduction to Combustion and Fire

Safety and Fire Law

Energy Transfer and Thermodynamics

Engineering Design Practice

Engineering Analysis 1

First aid & safety

Skills for Fire Studies

Oil and Gas Engineering Operations

Reliability Engineering in Complex Systems

Accidents and Catastrophes

Safety, Health and Environmental Management

Project Management

Computational Engineering

Engineering Analysis 2

Oil and Gas Production Engineering

Safety Case Development and Management

Fire Protection Engineering

Probabilistic Risk Analysis

Engineering Design Project

Engineering Dissertation

Major of Applied Science in Petroleum Geology

Major of Science in Petroleum management

Available degrees in the major

Associate degree duration: 2 years

Credit hours : 60 credits

Bachelor's degree duration: 3 years

Credit hours : 99 credits

The program provides students with overall knowledge relating to the field of energy, oil and gas management. It is designed to prepare future junior executives and business managers for the emerging oil & gas industry .

The proposed of the degree is designed to have learning outcomes related to: knowledge, application of knowledge and understanding of the oil and gas technologies and the management of energy. The curriculum equips students with theoretical and practical knowledge, investigative and analytical skills, and the understanding of the business and management processes necessary to develop a career in the Oil & Gas industry.

The program has both an academic and market orientation. Thus, it targets students that intend to pursue post-graduate studies, as well as those that will enter the job market after graduation.

Learning Outcomes:

1. Utilize knowledge and understanding on conventional business administration subjects such as general accounting, economics, management, marketing, business law and finance.
2. Exhibit such skills that are required in negotiation, operations management, oil & gas accounting and project management for the energy sector.
3. Critically evaluate basic science concepts and principles relating to physical geology, petroleum geology and energy technologies.
4. Utilize fundamental knowledge of oil & gas technologies, and apply safety and risk assessment techniques.
5. Display knowledge and understanding in the area of law relating to oil & gas, environment and the law of the seas.
6. Analyse and evaluate the economics of energy, oil & gas industry and the oil and gas markets.
7. Clearly communicate European energy and environmental policies as well as geopolitical security issues.
8. Critically analyses and evaluate current environmental topics, such as climate change, renewable resources and sustainability.
9. Manage one's own learning and development, including time management and organizational skills in order to plan and implement a major independent project.



Major Courses

Introduction to Oil and Gas

Introduction to Petroleum Geoscience

Field and Higher Education Skills

The Economic Environment of Business

Introduction to Electricity Production

Numerical Skills for Oil, Gas and Energy Management

Petroleum Technology

The Downstream Petroleum Business

Nuclear and Renewable Energy

Project Management, Management Systems in the Energy Industry

Career Management Skills

Climate Change: The science and the symptoms

Petroleum Technology

Health, Safety and Risk in the Energy Industry

Employment Skills

Graduation project

Environmental pollution and management

Energy trading and economics

The Future of the Oil and Gas Industry

Energy and Environmental Management and Auditing



Major of Applied Science in Petroleum Geology

Major of Science in Petroleum management

Available degrees in the major

Associate degree duration: 2 years

Credit hours : 70 credits

Bachelor's degree duration: 3 years

Credit hours : 120 credits

This program is designed for students who wish to receive training for a career in the petroleum industry. There are many optional courses providing detailed training in specialized fields such as oil and gas exploration, drilling, reservoir and production engineering, oil and gas facilities design and operation, upgrading and refining operations, and economic analysis. In this major you study process technology and safety, and you gain insight into areas such as:

- ★ Production of offshore installations

- ★ Equipment and service

- ★ Extraction of oil and gas

Moreover, you learn about the development of biofuel from biomass. We can create biofuel in the laboratories within minutes, whereas the development of oil and gas has evolved over millions of years. In terms of onshore, you will be part of projects for development of geothermal facilities.

Major Courses

Petroleum Computational Me

Petroleum Computational Methods

Well Drilling

Gas Production

Petroleum Seminar Capstone

Human Resources Utilization in the Petroleum Industry

Intercultural Communications

Economics of the Petroleum Industry

Safety and Control Systems

Oral and Written Communications Applied to the Petroleum Industry Offshore Division

Methods of Artificial Lift

Drilling Fluids

Well Completion, Service and Work-over

Well Control

Rock and Fluid Properties

Well Evaluation, Methods, and Procedures



EGS GRADUATE PROGRAMS

Master's Degree

Master's degree duration: 1 year

Credit hours : 35 credits

- ☆ Masters in Risk and Safety Engineering Management (For oil and Gas)
- ☆ Masters in Petroleum management
- ☆ Master of Science in Petroleum Studies

Why go to graduate school?

Industry Leadership

- ★ Top management positions in major corporations often require advanced degrees.
- ★ Top technical positions usually require advanced degrees.
- ★ Top consulting firms rely on expert skills acquired through advanced degrees.
- ★ Faculty positions in universities require PhD degrees.

Career Opportunities

- ★ Companies looking for the best professionals trust the advanced degree as an indication of excellent skills.
- ★ Companies recognize excellence and tag high-potential employees to rise rapidly in the organization.
- ★ Graduate presentations and publications give students an opportunity to make valuable industry contacts that lead to good job offers and boost their professional reputation.

International Activity

- ★ International government and industry officials are highly attuned to the value of graduate degrees. Many of them hold advanced degrees, and they greatly respect business associates who do as well.
- ★ Consultants who have advanced degrees have a significant advantage in obtaining contracts for overseas work.

Contributions to the Industry

- ★ Graduate studies move from the general overview of the industry that undergraduate programs provide to in-depth knowledge of specific areas.
- ★ Graduate courses provide skills and tools for solving tough engineering problems, and graduate research projects help solve some of those problems.
- ★ The combination of increased understanding of the problems with the skills and tools to solve them provides the path to developing the technology of the future.

Personal Growth

- ★ Graduate courses are small, allowing students to work one-on-one with a professor.
- ★ Graduate research groups are diverse, providing students opportunities to work and study with an intelligent, motivated group from around the world.
- ★ Graduate research teams provide important training for the team membership and management that are in high demand in industry today.
- ★ Independent research opportunities help students improve their critical-thinking skills.
- ★ Writing and defending the thesis, dissertation, and conference papers improves written and oral presentation skills.

Masters in Risk and Safety Engineering Management (For oil and Gas)

This program provides education and training for graduate engineers in the general area of safety engineering, reliability engineering, and loss prevention. Safety engineering is not a subject which is adequately covered in most undergraduate degrees, so this MSc program brings together those topics relating to the safety and reliability of engineering products and systems, including the legislative framework, in a unified approach.

The aim is to provide an opportunity for graduate engineers to develop a career in safety and reliability engineering and risk management. There is a continuing high demand for people with specialist knowledge in these areas.

This program provides an integrated approach to safety and reliability issues across most of the traditional branches of engineering, and allows students to specialize in offshore engineering, technical safety, reliability, legislations and regulations or human factors.



Major Courses:

Fundamental Safety Engineering And Risk Management Concepts.

Statistics And Probability For Safety, Reliability And Quality.

Fire And Explosion Engineering.

Offshore Structures & Subsea Systems.

Advanced Methods For Risk And Reliability Assessment.

Applied Risk Analysis And Management.

Process Design, Layout & Materials.

Safety Engineering Individual Project.



Masters in Petroleum Management

The aims of the program is to provide education and training at postgraduate level for data managers both working in the petroleum sector or for those aspiring to work in the sector. The content reflects the overview of all key data management activities of relevance to petroleum data managers working in multi-disciplinary teams. The course content is being developed with input from our industrial partners to ensure the program is tailored to the needs of industry. Programs with leading multinational companies including Shell, Total and Chevron.

Major Courses:

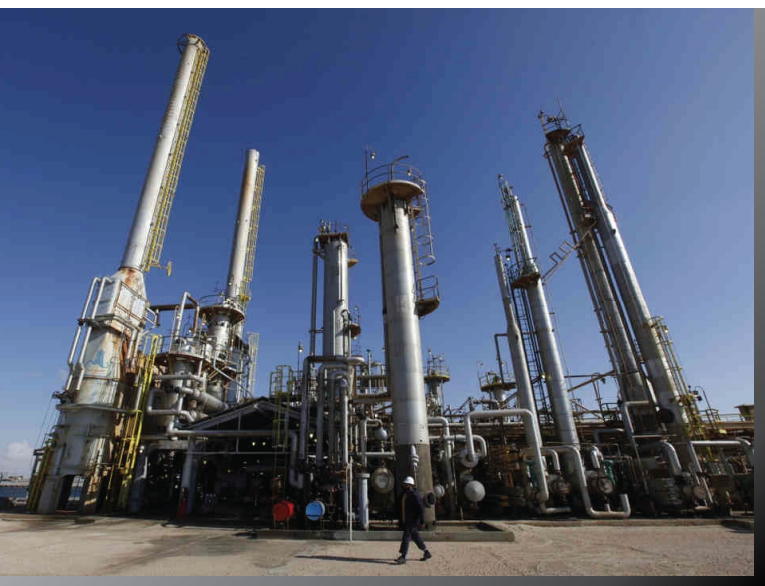
Petroleum Engineering Technical English.
Review of Petroleum Engineering Fundamentals.
Review of Advances in Upstream Petroleum Engineering.
Leadership Management.
Business Processes.
Petroleum Engineering Project Management.
Petroleum Engineering Process Safety Management.
Petroleum Engineering Environmental and Social Impact Assessment.
Individual Project.
Plant & Environ Safety.
Lean Six Sigma.
Procurement & Supplier Management.



Master of Science in Petroleum Studies

The Master's degree program in Petroleum Studies aims at providing professionals with the necessary broad skills and understanding in petroleum related subjects to allow them to start or advance their career in the oil and gas sector. The course offers academic and specialized training in all aspects of the upstream petroleum industry, from exploration to production. Students will acquire in depth knowledge on petroleum geology and geophysics including the processing and interpretation of geophysical data and the economic assessment of prospects, together with a sound understanding of petroleum engineering including drilling, production and process engineering, as well as an overview of the legislative framework.

The course is especially suited to students interested in a job environment encompassing the full spectrum of disciplines of the upstream oil and gas industry such as technical and managerial job placement in exploration and production and in the regulatory sector.



On successful completion of the course the students would have developed an understanding of:

- ★ The main petroleum science and engineering subjects including geophysics, petroleum geology, petro-physics, petroleum geochemistry and microbiology, operational geology, reservoir engineering, drilling, development and production engineering.
- ★ Analysing field and well data, such as outcrops, cuttings, cores and wire line logs, formation fluids and formation pressure.
- ★ Currently used industry software.
- ★ The economics of petroleum, risk assessment and environmental mitigation.
- ★ Currently used drilling and development technology.
- ★ The contractual and regulatory aspects of the industry.
- ★ Current developments in the international exploration and production business
- ★ Skills that promote employment advancement.



Major Courses:

Geology 1

Physical geology, stratigraphy, rocks and minerals, sedimentology, palaeontology .

Geology 2

Petroleum geology, petroleum systems and basin analysis.

Geophysical Techniques 1

Gravity, magnetic, electrical, electromagnetic, radiometric & remote sensing: theory, acquisition, inverse theory, modelling.

Geophysical Techniques 2

Seismic reflection technique, marine & land acquisition, 3D surveys, wave equation, time series analysis, seismic data processing to pre stack depth migration, amplitude versus offset, impedance, direct hydrocarbon indicator.

Petrophysics

Physical properties of rocks, well logs and log interpretation.

Reservoir Engineering

Flow in porous media, reservoir mechanics, material balance, secondary recovery.



Petroleum Geochemistry & Microbiology
Origin of petroleum, composition, maturity, basin modelling, isotopic characteristics, microbiology and petroleum nutrients, conversion, sampling, analysis, surveys.

Prospect Generation and Geoinformatics
Seismic interpretation, seismic attributes, work stations, prospects, risks, economics.

Drilling & Production Engineering
Rigs, drilling procedure, mud engineering, casing and cementing, production and processing, transportation.

Fiscal and Resources Law
Licensing, fiscal regimes, contracts, royalty, taxation, environmental impact assessment, health and safety, decommissioning, maritime zones, delimitation, conventions, agreements, disputes, resolution.

Project
Individual project selected by the student or allocated by the Department.

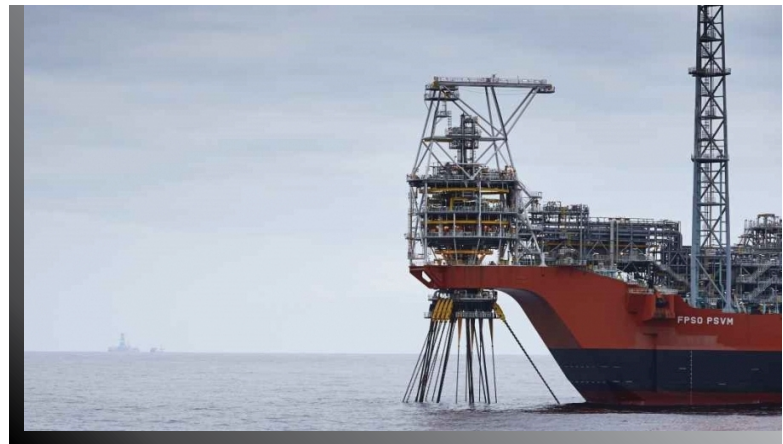
Geology 1
Physical geology, stratigraphy, rocks and minerals, sedimentology, palaeontology.

Geology 2
Petroleum geology, petroleum systems and basin analysis.

Geophysical Techniques 1
Gravity, magnetic, electrical, electromagnetic, radiometric & remote sensing: theory, acquisition, inverse theory, modelling.

Geophysical Techniques 2
Seismic reflection technique, marine & land acquisition, 3D surveys, wave equation, time series analysis, seismic data processing to pre stack depth migration, amplitude versus offset, impedance, direct hydrocarbon indicator.

Petro physics
Physical properties of rocks, well logs and log interpretation.



Reservoir Engineering
Flow in porous media, reservoir mechanics, material balance, secondary recovery.

Petroleum Geochemistry & Microbiology
Origin of petroleum, composition, maturity, basin modelling, isotopic characteristics, microbiology and petroleum nutrients, conversion, sampling, analysis, surveys.

ADMISSION REQUIREMENTS

Associate program

High school certification

Bachelor's program

High school certification

Diploma (for evaluation)

Master's program

High school certification

Bachelor Degree

Relevant work experience

TUITION FEES

Associate Program Tuition Fee

10,000 USD

200 \$ Registration Fees

Bachelor's Program Tuition Fee

11,000 USD

200 \$ Registration Fees

Master's Program Tuition Fee

12,000 USD

200 \$ Registration Fees



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