

Master's in
**Integrated
Management
of Chemistry
Laboratories**

RPC-SO-20-No.427-2020

Choose ESPOL

1

INSTITUTIONAL PRESTIGE

The best public university in the country and one of the best in Latin America, according to international rankings.

2

PRIVILEGED CAMPUS

560 hectares of protected forest invite you to stay in contact with nature.

3

LINKING WITH THE COMMUNITY

Our programs respond to the needs of society.

4

INTERNATIONAL PARTNERSHIPS AND ALLIANCES

Student mobility, development of research projects and networking.

5

MODERN INFRASTRUCTURE

Our facilities are equipped with laboratories and technology that complements quality training.

6

EMPLOYABILITY

Graduates with a high rate of employability in domestic and foreign companies.





In the productive, educational, and research and development sectors, Comprehensive Laboratory Management plays a vital role, as it is responsible for verifying and ensuring product quality, delivering reliable results, and protecting public health.

As a leading academic institution in Ecuador, ESPOL has consistently demonstrated excellence in training qualified professionals, offering innovative academic programs, and operating modern, accredited laboratories. In line with its commitment to high academic standards and technological advancement, ESPOL now takes on the challenge of developing a Master's Degree in Integrated Management of Chemistry Laboratories.

This program is designed to enhance the skills of professionals in the field, with a focus on the administrative management of resources and risks. It provides in-depth knowledge in method design and validation, along with hands-on experience using advanced instrumentation, enabling participants to propose effective management strategies grounded in sustainability and efficiency.



Title to be obtained:

Master in Integral Management of Chemistry Laboratories

Certification of: **Internal Auditor**

Under the Standard NTE INEN-ISO/IEC 17025: 2018

Applicant Profile

This program is designed for professionals trained in the chemical sciences, chemical engineering, food engineering, or other disciplines within the natural sciences, particularly those with experience in testing laboratories.

Graduate Profile

Graduates will be equipped to manage resources and risks, operate modern analytical instrumentation for the qualitative and/or quantitative determination of analytes, design and validate chemical analysis methods, conduct audits and support laboratory accreditation processes, and develop strategic plans for laboratories in both the public and private sectors. They will also be prepared to hold management-level positions or work as independent consultants

Duration:
16 months

Blended Learning:
Two regular terms within a year, followed
by a Degree work.

Chemometrics

32 hours

Applied Experimental Design

32 hours

Iso Standards For Testing Laboratories

48 hours

Validation of Test Methods

48 hours

Elective 1

32 hours

Degree I-Project Formulation

16 hours

Advanced Instrumental Analysis I

60 hours

Advanced Instrumental Analysis II

60 hours

Laboratory Risk Management

28 hours

Elective 2

32 hours

Degree II

48 hours



Joel Vielma Puente, Ph.D.

Academic Coordinator

Ph.D. in Applied Chemistry, Mention: Study of Materials from Universidad de Los Andes, Venezuela, professor and researcher at Escuela Superior Politécnica del Litoral, 11 years of teaching experience and 15 years of experience in Research and Development of new materials and the use of instrumental equipment for chemical analysis.

Some of our teachers:

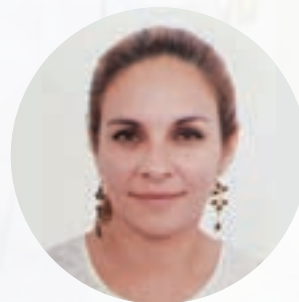
Diana Tinoco Caicedo, Ph.D.

PhD in Chemical Engineering, University of Las Palmas de Gran Canaria, Spain; professor and researcher at the Department of Chemical and Environmental Sciences of the Escuela Superior Politécnica del Litoral. Experience in the Management and Consulting of Quality Management Systems in Accredited Testing Laboratories.



Carmen Montiel Izquierdo, Mgtr.

Pharmaceutical Chemistry, Master in Business Administration from the University of Buenos Aires, Project Manager at Qualygestion, specialist in Quality Systems Implementation and Validation of Test Methods, with 20 years of experience in the Laboratory Quality Management sector.



Admission Process



Application Requirements

- Updated resume,
- Letter of motivation,
- Take a standardized aptitude test with English component,

For Ecuadorian applicants:

- Identity card and updated voting certificate,
- Third level degree duly registered in SENESCYT;

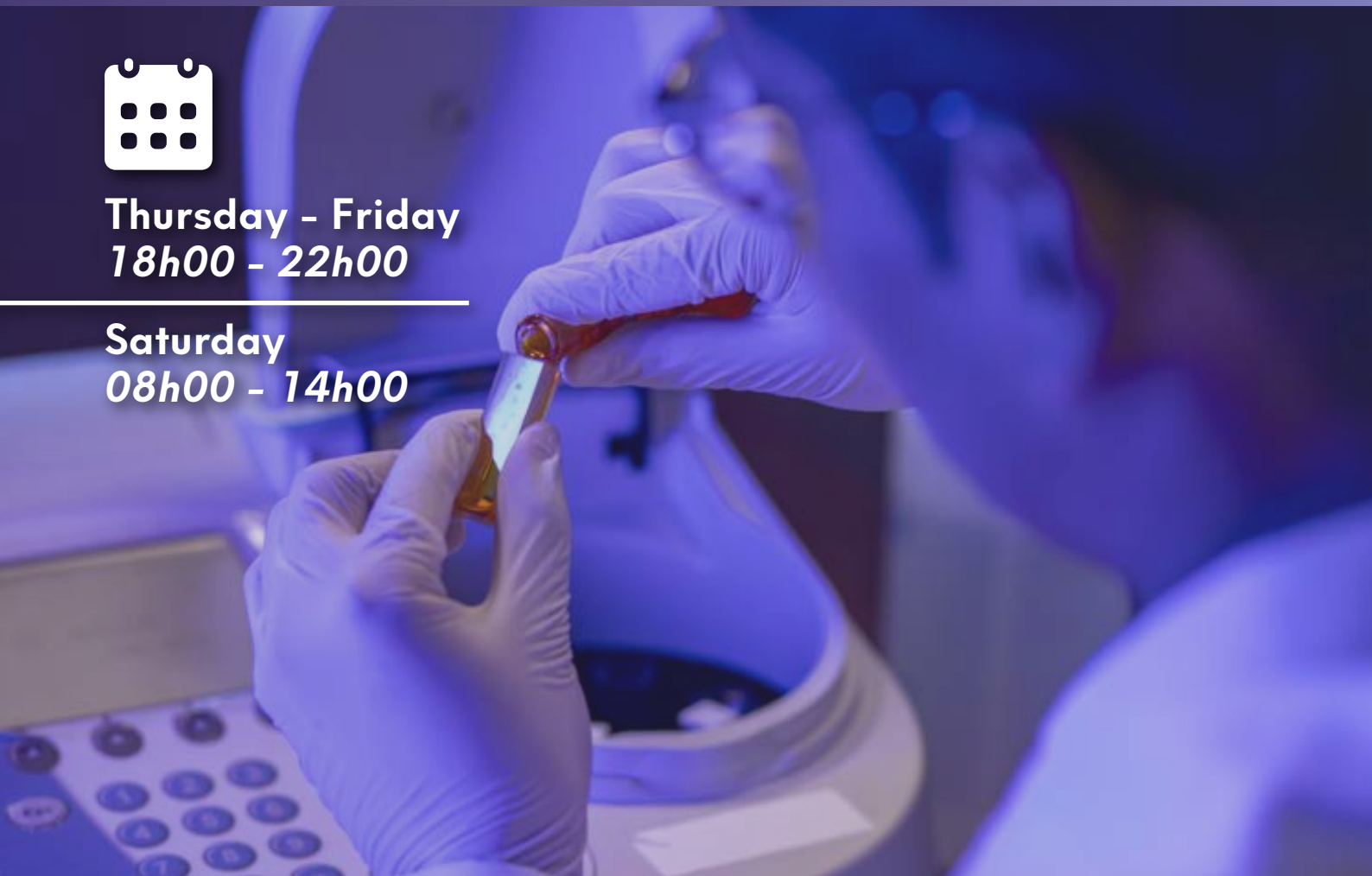
For foreign applicants:

- Identity card or valid passport issued by their country of residence,
- Third level degree duly registered at SENESCYT or copy of the degree apostilled or legalized by consular means.



Thursday - Friday
18h00 - 22h00

Saturday
08h00 - 14h00





Financing

Direct financing available in up to 18 interest-free installments with no guarantor required.

Payment Methods

Credit or debit card.

Investment

Enrollment: \$500.00 Fee: \$8,400.00

Scholarships*

**Restrictions apply*

Early Application:

3 Months before start of classes **39%**

2 Months before start of classes **35%**

Early Payment:

35%

Academic Excellence:
Vulnerability Situation:
Territorial Proximity:

35%

Alumni ESPOL:

39%

ESPOL Staff and Public Employees:

35%

Disability:

39%

Inter-institutional cooperation agreements:

35% - 39%

Economic Condition:

46%

Degree projects focused on research:

46%



**Facultad de
Ciencias Naturales y Matemáticas**

www.espol.edu.ec



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Information and contacts:

Facultad de Ciencias Naturales y Matemáticas

Phone Number: +593 4 2269528

WhatsApp: +593 96 191 4684

Attention: Monday to Friday from 08h00 a 16h30

email: postfcnmm@espol.edu.ec

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Guayaquil - Ecuador

