UNIVERSIDAD
YACHAY
TECH

EXPLORE OUR ACADEMIC PROGRAMS!

SCHOOL OF
MATHEMATICAL AND
COMPUTATIONAL SCIENCES

SCHOOL OF
EARTH SCIENCES,
ENERGY AND ENVIRONMENT

SCHOOL OF
PHYSICAL SCIENCES
AND NANOTECHNOLOGY

SCHOOL OF
BIOLOGICAL SCIENCES
AND ENGINEERING

SCHOOL OF
CHEMICAL SCIENCES
AND ENGINEERING

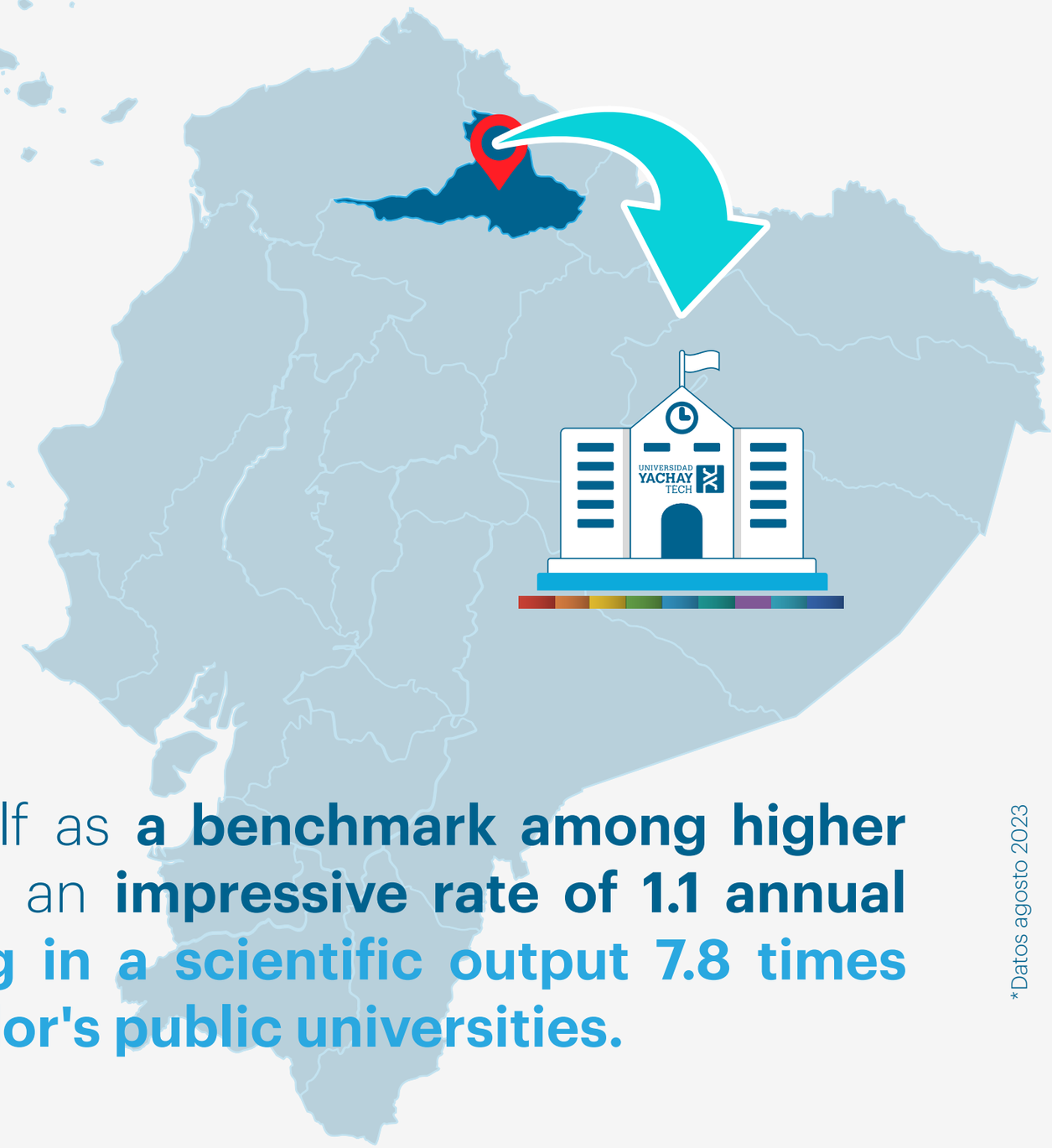
SCHOOL OF
AGRICULTURAL AND
AGRO-INDUSTRIAL SCIENCES

- **Yachay Tech University** is a public institution of higher education, **accredited by the Council for Quality Assurance in Higher Education** through Resolution No. 154-SO-30-CA-CES-2024.

- **Its name is inspired by** the Kichwa word "Yachay," which means "knowledge."

- Its curriculum **focuses on scientific and technological fields**, with a strong emphasis on **bilingual education.**

- Located in the **San Miguel de Urcuquí city, Imbabura Province.**



The university has positioned itself as **a benchmark among higher education institutions**, achieving an **impressive rate of 1.1 annual publications** per capita **resulting in a scientific output 7.8 times higher than the average of Ecuador's public universities.**

*Datos agosto 2023

WHAT MAKES YACHAY TECH UNIVERSITY UNIQUE?

#WeDoScienceYT

GENERAL INFORMATION:

13
TEACHING LABORATORIES

14
RESEARCH LABORATORIES

382
STUDENT RESIDENCES

154
FACULTY MEMBERS WITH POSTGRADUATE (FOURTH-LEVEL) DEGREES

2001
ESTUDIANTES
566 in leveling courses
1,435 enrolled in undergraduate programs

763
GRADUATES

*September 2024 data

RESEARCH HIGHLIGHTS

Yachay Tech provides internal funding for research projects and scientific publications.

1,300+ PUBLICATIONS INDEXED IN SCOPUS

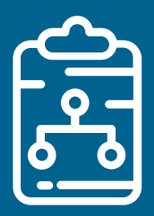
*As of August 2024

51% OF SCIENTIFIC PUBLICATIONS IN 2023 INVOLVED STUDENT PARTICIPATION

*Data 2023

60% OF PUBLICATIONS ARE HIGH-IMPACT, RANKED IN Q1–Q2 QUARTILES

*As of August 2024



80+ PROJECTS ALIGNED WITH INSTITUTIONAL RESEARCH AREAS AND LINES

*As of August 2024

17+ ACTIVE RESEARCH GROUPS

*As of August 2024

LIBRARY

The **Yachay Tech Heritage Library** is a unique space that blends history and knowledge. It features a large, single-level main area and a secondary section spread across four levels, **covering a total area of 941.65 m²**. It is the **only library in the country offering 24/7 service.**

THE ONLY ONE IN THE COUNTRY WITH 24/7 SERVICE

- **36** INDIVIDUAL WORKSTATIONS
- **26** GROUP STUDY SPACES
- **10** COMPUTER STATIONS
- **9** LOUNGE AREAS WITH BEANBAG CHAIRS
- **1** WORKSTATION FOR VISUALLY IMPAIRED INDIVIDUALS
- **8** STUDY ROOMS (5 AVAILABLE 24/7)

| COMPILATIO: A plagiarism detection and similarity-checking tool
| Access to major scientific databases, including SCOPUS, SCIFINDER, DIGITALIA, and EBSCO

COMMUNITY ENGAGEMENT

We strengthen our teaching and learning processes by **promoting collaboration and driving innovation** to address societal challenges through **Yachay Tech's academic and research domains.**

COMMUNITY ENGAGEMENT PROJECTS

+30 ACTIVE PROJECTS

In areas such as Continuing Education, Research, Community or Social Service, Technical Assistance, and Scientific Outreach.

CONTINUING EDUCATION

+100 CERTIFIED COURSES ACCREDITED BY THE MINISTRY OF LABOR

* Information and Communication Technologies (ICT)
* Mathematics and Statistics
* Engineering and Production
* Agriculture
* Transportation and Logistics
* Education and Languages
* Physical Sciences, among others

INTERNSHIPS AND PROFESSIONAL PRACTICES

+150 PUBLIC AND PRIVATE PARTNERSHIPS, BOTH NATIONAL AND INTERNATIONAL

Supporting pre-professional internships and community engagement projects.

*September 2024 data

LANGUAGES

One of the university's key **strengths lies in the exceptional English** proficiency of our students, supported by highly qualified faculty, including C1–C2 certified instructors and native speakers.

C1-C2 CERTIFIED INSTRUCTORS AND NATIVE SPEAKERS

01 LEVELING COURSE
9 HOURS PER WEEK OF ENGLISH
Classes for Levels 1–2.

02 UNDERGRADUATE PROGRAM (1ST TO 4TH SEMESTER)
8 HOURS PER WEEK FOR LEVELS 3–4–5–6.
Focus on both General English and Academic English, enabling students to achieve B2 proficiency.

03 FROM THE 5TH SEMESTER ONWARD
ENGLISH AS A MEDIUM OF INSTRUCTION (EMI)
Several undergraduate courses are taught entirely in English.

04 GRADUATION REQUIREMENT
THESIS DEFENSE IN ENGLISH
All undergraduate thesis defenses are conducted in English, reflecting the university's bilingual academic environment.

CAMPUS LIFE

FREE SERVICES

- GYM
- 45 STUDENT CLUBS
- TRANSPORTATION
- MEDICAL SERVICES
- SPORTS FACILITIES
- PSYCHOLOGICAL SUPPORT
- GARDEN BOTANICAL
- ARCHAEOLOGICAL MUSEUM

PAID SERVICES

- STUDENT HOUSING (RESIDENCES)
- MEAL PLANS

STUDENT HOUSING

- **382** RESIDENCES WITH CAPACITIES RANGING FROM 2 TO 8 STUDENTS PER UNIT, SEPARATED BY GENDER
- **945** STUDENTS LIVE IN THE UNIVERSITY'S RESIDENTIAL FACILITIES

FURNISHING DETAILS

- **81%** OF RESIDENCES ARE FULLY FURNISHED
- **19%** RESIDENCES ARE UNFURNISHED

- **3** Housing Types:
  - *Heritage Residences
  - *Multi-family Residences
  - *Administrative Residences

KEY FEATURES OF ALL RESIDENCES:

- Kitchen
- Utilities: Water, electricity and internet.
- Security Services
- Green Areas

*September 2024

Approximate Monthly Costs: From $42 to $217

SCHOLARSHIPS AND FINANCIAL AID

Each academic period, Yachay Tech **offers 7 types of scholarships and financial aid, benefiting at least 10%** of the total number of regular students.

Discover the scholarship opportunities Yachay Tech has for you!

Scholarship Opportunities for Undergraduate Students (**1st to 10th Semester**)

01 Students with Disabilities

02 Economic Vulnerability

03 Indigenous Peoples and Nationalities

04 Academic Excellence
(Applicable from the 2nd semester onward)

05 High-Performance Athletes

06 Academic Mobility
(For **national and international programs**, applicable from the 5th semester after completing 40% of the undergraduate curriculum)

07 Cultural and Sports Development

YACHAY TECH ACADEMIC OFFERING

SCHOOL	UNDERGRADUATE PROGRAMS	POSGRADOS MAESTRÍAS
SCHOOL OF PHYSICAL SCIENCES AND NANOTECHNOLOGY	Physics	° Educación STEM mención en | Ciencias Físicas
	Nanotechnology	° Fundamental Physics
SCHOOL OF CHEMICAL SCIENCES AND ENGINEERING	Chemistry	° Chemical Sciences with a specialization in: | Theoretical and Computational Chemistry | Medicinal Chemistry | Materials Science and Engineering
	Materials	
SCHOOL OF MATHEMATICAL AND COMPUTATIONAL SCIENCES	Computing	° Computer Science
	Mathematics	° Artificial Intelligence
	Data Science (New Program)	° Data Science
SCHOOL OF EARTH SCIENCES, ENERGY AND ENVIRONMENT	Geology	° Geosciences
SCHOOL OF BIOLOGICAL SCIENCES AND ENGINEERING	Biology	° Synthetic Biology
	Biomedicine	
SCHOOL OF AGRICULTURAL AND AGRO-INDUSTRIAL SCIENCES	Food Agroindustry	

YACHAY TECH LANGUAGE CENTER

HUMAN DEVELOPMENT DEPARTMENT

DOCTORATES

***Doctorate in Materials Science**
(Resolution RCSU-SE-022 No. 0110-2023)

***Doctorate in Mathematics and Computational Sciences**
(Resolution RCSU-SE-022 No. 0111-2023)

*Doctoral programs pending approval

EXPERIMENTAL SCIENCES EDUCATION

Undergraduate program is a collaborative effort between
UNAE / IKIAM

POSGRADOS
UNIVERSIDAD YACHAY TECH

EXPLORE OUR ACADEMIC PROGRAMS

01

MASTER'S IN
Artificial Intelligence

Mode::
Online
Duration:
1 year
Cost:
$3.764

02

MASTER'S IN
STEM Teaching

Specialization:
Physical Sciences
Mode:
On-campus
Duration: **1 year**
Cost: **$4.240**

03

MASTER'S IN
Physics

Specialization:
Fundamental Physics
Mode:
On-campus
Duration: **1.5 years**
Cost: **$5.889**

04

MASTER'S IN
Geosciences

Mode:
On-campus
Duration:
2 years
Valor:
$6.896

05

MASTER'S IN
Chemical Sciences

Specialization:
Medicinal Chemistry
Mode:
On-campus
Duration: **2 years**
Cost: **$5.966**

06

MASTER'S IN
Chemical Sciences

Specialization:
Materials Science and Engineering
Mode:
On-campus
Duration: **2 years**
Cost: **$5.992**

07

MASTER'S IN
Chemical Sciences

Specialization:
Theoretical and Computational Chemistry
Mode:
On-campus
Duration: **2 years**
Valor: **$5.334**

SCHOOL OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

COMPUTER SCIENCE

A Computer Science professional is trained to manage, design, and develop computational systems based on solid principles of mathematics, science, and information technology. They apply recognized and effective methodologies while always considering the impact of computing on individuals, organizations, and society.

10 SEMESTERS

MATHEMATICS

A Mathematics professional is equipped to conduct research in both Pure and Applied Mathematics and engage with various fields of knowledge. They will have the ability to identify, design, and implement solutions to complex problems across different disciplines. They will also possess the necessary skills to work effectively in multidisciplinary teams.

5 YEARS

DATA SCIENCE

A Data Science graduate will be prepared for various roles in the market related to data analytics, such as Data Scientist, Data Engineer, or Chief Data Officer (CDO). They will have a strong foundation in analysis tools, programming, and problem-solving, enabling them to efficiently implement Data Analysis and Big Data projects. This professional will have a solid mathematical foundation.

9 SEMESTRES

4,5 YEARS

SCHOOL OF EARTH SCIENCES, ENERGY AND ENVIRONMENT

GEOLOGY

A Geology professional investigates and identifies the natural processes that shape our planet, applying their knowledge to understand Earth's dynamics and geological history. They have the ability to identify, analyze, and solve problems related to geological, geomorphological, climatic, hydrological, and environmental risks. They are also trained to evaluate and manage mineral and petroleum deposits. Their education enables them to participate in research projects, plan, and execute civil and environmental works.

10 SEMESTERS

5 YEARS

SCHOOL OF PHYSICAL SCIENCES AND NANOTECHNOLOGY

NANOTECHNOLOGY

Nanotechnology focuses on three main subfields: nanotechnology, the science and engineering of new materials, and the fabrication of devices for nanoelectronics applications. The program strongly emphasizes understanding nanoscale phenomena by considering fundamental principles.

10 SEMESTERS

PHYSICS

The Physics program prepares students to explore fundamental theoretical and experimental disciplines, ranging from materials science to astrophysics and condensed matter physics. Our training includes advanced computational physics techniques and mathematical methods, equipping students for challenges in an interdisciplinary scientific and technological environment.

5 YEARS

SCHOOL OF BIOLOGICAL SCIENCES AND ENGINEERING

BIOMEDICAL ENGINEERING

A Biomedical Engineer is trained to enhance healthcare systems and medical practices through the development of medical devices, biomaterials, bio-artificial tissues and organs, modern imaging techniques, and biosensing technologies. They generate technological and scientific knowledge through research and innovation, aiming to improve the reach and efficiency of medicine.

10 SEMESTERS

BIOLOGY

A Biology professional receives a solid foundation in botany, zoology, ecology, and evolution, as well as areas related to cellular and molecular biology, including microbiology, bacteriology, parasitology, biochemistry, and genetics. They are capable of driving innovation, entrepreneurship, and quality-of-life improvements through interdisciplinary scientific research.

5 YEARS

SCHOOL OF AGRICULTURAL AND AGRO-INDUSTRIAL SCIENCES

AGROINDUSTRIAL FOOD SCIENCE

An Agroindustrial Engineer specializes in hands-on learning within agricultural, livestock, and industrial modules, processing plant-based foods, fruits, dairy, and meat products while also developing new food products. Their work includes the scientific study of food and its reactions, contributing to the transformation of the country's agricultural and agroindustrial production.

8 SEMESTERS

4 YEARS

SCHOOL OF CHEMICAL SCIENCES AND ENGINEERING

MATERIALS ENGINEERING

A Materials Engineer receives interdisciplinary scientific and technical training covering the synthesis, design, extraction, characterization, and transformation of polymeric, metallic, and ceramic materials. This preparation allows them to integrate into various industrial sectors and work in design, characterization, and quality control centers for materials. Additionally, they engage in interdisciplinary, transdisciplinary, and multidisciplinary research, producing publications in high-impact scientific journals.

10 SEMESTERS

CHEMISTRY

A Chemistry professional is trained in organic, inorganic, physical, theoretical, and analytical chemistry. They master advanced techniques for synthesis, characterization, and analysis, with expertise in state-of-the-art instrumentation and technology. They can contribute to both basic and applied research programs.

5 YEARS

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Admission Process for Our Undergraduate Programs!

STEP 1
NATIONAL REGISTRATION (Senescyt)

STEP 2
ENROLLMENT

STEP 3
EVALUATION

STEP 4
APPLICATION

STEP 5
PROGRAM ADMITTANCE

STEP 5
CONFIRMATION OF ACCEPTANCE OF OFFER

Learn more about the process at:
https://yachaytech.edu.ec/admisiones/

Admission Process for Graduate Programs!

STEP 1
ENROLLMENT

STEP 2
APPLICATION

STEP 3
EVALUATION

STEP 4
PROGRAM ACCEPTANCE

STEP 5
TUITION AND FEE PAYMENT

Learn more about our programs at:
https://yachaytech.edu.ec/posgrado/