Tecnológico de Monterrey

IAG

B.S. in Agricultural Biosystems Engineering

Transform the Agri-Food Industry.

Why study this program at Tec?

At Tec, becoming an Agri-Food Biosystems engineer means learning how to feed the world with an ethical, scientific, and sustainable vision. From day one, you learn to integrate technology, science, and sustainability to produce food more efficiently, safely, and responsibly.

You design the future of agriculture through science, innovation, and environmental commitment.

Is this your path?

If sustainable food production interests you, you enjoy working outdoors, and you want to contribute to the well-being of people and the planet...

IAG at Tec is your platform to make it happen!



Imagine this:

Developing regenerative agriculture solutions.

Leading your own biotechnology company.

Collaborating with international organizations to transform global food security.

At Tec, that future begins today.



What makes this program unique at Tec

- A learning ecosystem with partners like Bayer, John Deere, Nestlé, and José Cuervo.
- Cutting-edge labs and technology: digital agriculture, drones, sensors, automation, and biotechnology.
- Concentrations in bio-entrepreneurship, functional genomics, sustainable water, and Industry 4.0 systems.
- Academic stays at universities such as Purdue, AgroParisTech, Melbourne, Buenos Aires, and Almería.

Be part of something bigger

Up to 95.6% of our graduates pass the EGEL-CENEVAL exam in agricultural sciences

Partnerships with AgroParisTech, Purdue, University of Melbourne, and more

Projects in regenerative and digital agriculture

Check which campuses offer this program at tec.mx

A career field with countless paths

Agri-food systems management, plant and animal biotechnology, production and export consulting, sustainable agribusiness, research, smart agriculture solutions, food policy, tech entrepreneurship, and public administration.



The voices of those already making an impact

- **Eduardo Íñigo Beltrán** – CENEVAL National Award 2024.
- **Raúl García Reyes** – Research stay at North Carolina State University.
- **Pablo Félix García** – Project selected by NASA.

A glimpse of how our community creates real impact.



Skills you'll develop

- You'll integrate productive biosystems with emerging technologies.
- You'll evaluate sustainable strategies based on circular economy principles.
- You'll manage processes aligned with international standards.
- You'll communicate ideas clearly and create proposals that generate economic, social, and environmental value.

Your ideas regenerate the future. Here, you turn them into real impact.

Take the first step toward engineering that transforms communities.

Tecnológico de Monterrey

Curriculum
B.S. in Agricultural Biosystems Engineering

SEMESTER 1
- Elective Course Mathematics and Science
- Differential and Integral Calculus
- Biology and Sustainability
- Algorithmic Thinking
- Innovative Perspectives in Engineering
- The Laws of Motion and Conservation
- Tec Week: Induction to the Social Service
- Tec Week Elective I

SEMESTER 2
- Elective Course Humanities and Fine Arts
- Multivariable Calculus
- Linear Algebra
- Chemistry Fundamentals
- Exploration Topic
- Statistics and Data Handling
- Fundamentals of Thermodynamics
- Foreign Language
- Tec Week Elective II
- Tec Week Elective III

SEMESTER 3
- Elective Course Social and Behavioral Sciences
- Fundamentals of Differential Equations
- Biomolecules and Metabolism
- Fundamentals of Organic Compounds
- Research Methods in Biosystems
- Productive Biosystems
- Animal and Plant Comparative Physiology
- Tec Week Elective IV
- Tec Week Elective V

SEMESTER 4
- Elective Course Leadership, Entrepreneurship and Innovation
- Management of Productive Biosystems
- Plant Nutrition
- Animal Nutrition
- Productivity Evaluation
- Abiotic Factors
- Advanced Management and Agribusiness
- Disciplinary Tec week
- Tec Week Elective VI

SEMESTER 5
- Elective Course Ethics and Citizenship
- Project Management
- Principles of Agrobiotechnology
- Environmental Impact and Sustainability Strategies
- Genetics and Productivity
- Health and Integrated Management
- Tec Week: Professional Life Planning
- Tec Week Elective VII

SEMESTER 6
- Information Technologies in Biosystems
- Circular Economy and Postharvest
- Protected Agriculture
- Plant Propagation
- Automation and Control in Agriculture
- Tec Week Elective VIII
- Tec Week Elective IX

SEMESTER 7
TEC SEMESTER

You'll be able to customize your career through:
- Concentrations
- Internships
- International experience
- Elective training units

- Tec Week Elective X
- Tec Week Elective XI

SEMESTER 8
- Elective Multidisciplinary Professional
- Sustainable Digital Agriculture
- Tec Week: Strategies and Guides for the Final Degree Exam
- Tec Week Elective XII

● You'll be able to customize your learning experience by choosing from the different available options.

*The curriculum may vary. Contact an admissions advisor or visit **tec.mx** for more information.

Want more info?

Scan this QR to know more about this program.
tec.mx/iag

Your future in AGRICULTURAL BIOSYSTEMS ENGINEERING starts here.

WHY NOT?

RVOE: DEC-520912