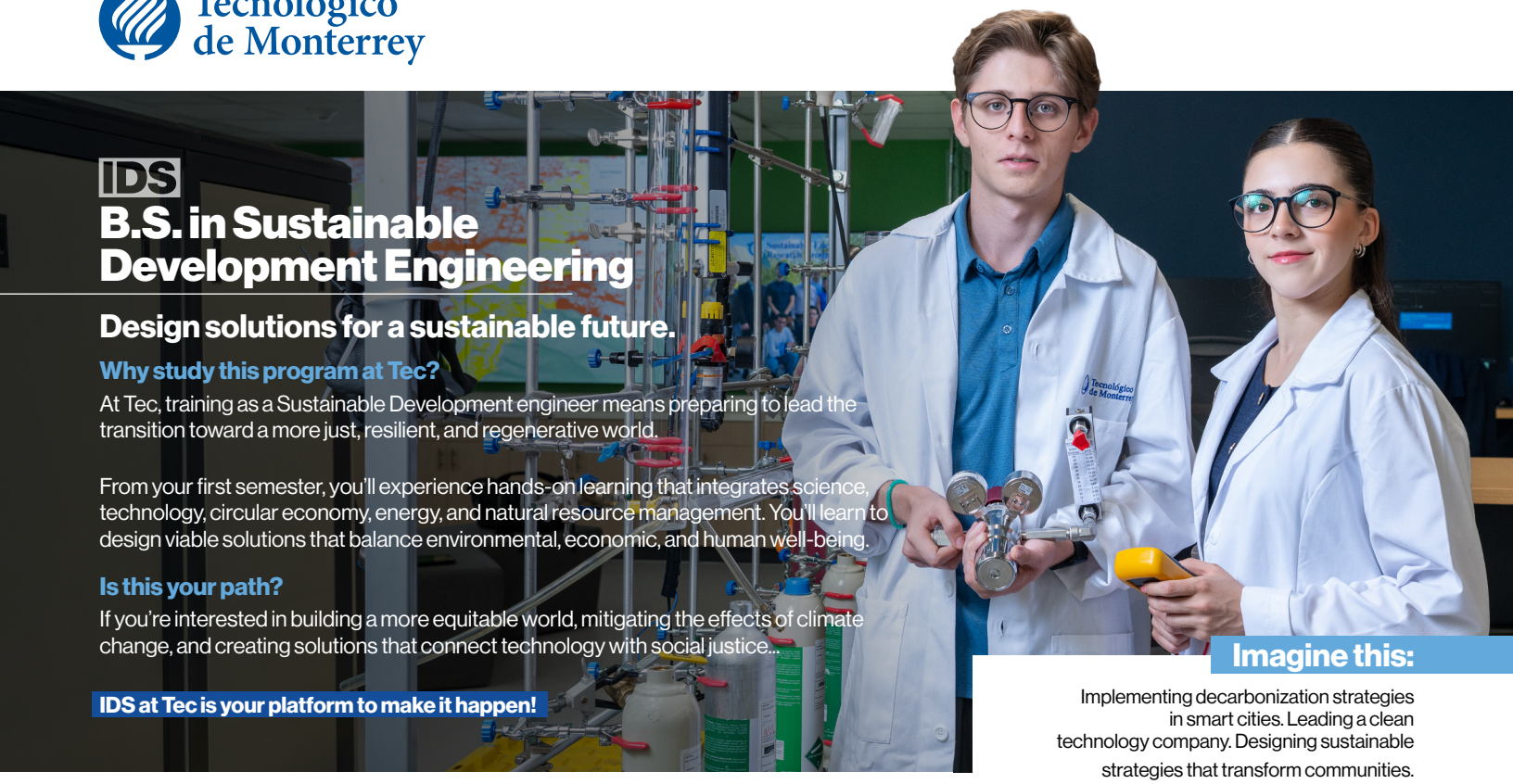
Tecnológico de Monterrey



IDS

B.S. in Sustainable Development Engineering

Design solutions for a sustainable future.

Why study this program at Tec?

At Tec, training as a Sustainable Development engineer means preparing to lead the transition toward a more just, resilient, and regenerative world.

From your first semester, you'll experience hands-on learning that integrates science, technology, circular economy, energy, and natural resource management. You'll learn to design viable solutions that balance environmental, economic, and human well-being.

Is this your path?

If you're interested in building a more equitable world, mitigating the effects of climate change, and creating solutions that connect technology with social justice...

IDS at Tec is your platform to make it happen!

Imagine this:

Implementing decarbonization strategies in smart cities. Leading a clean technology company. Designing sustainable strategies that transform communities.

At Tec, that future starts today.



What makes this program unique at Tec

- Strong industry connections with companies such as Siemens Energy, Danone, Coca-Cola FEMSA, and SouthPole.
- Double degrees and international programs with universities such as Chalmers, Queensland, Monash, and Essex.
- Concentrations including Decarbonization, Circular Economy, Corporate Sustainability, and Clean Energy.
- Holistic thinking aligned with the 2030 Agenda and the EU Horizon program.
- High employability in the energy sector and consulting.

Be part of something bigger

#102 worldwide in Environmental Sciences (QS by Subject 2026)

The only engineering program in Mexico with a holistic and regenerative approach

Direct engagement with industry, companies, communities, and NGOs

Partnerships with institutions such as the World Resources Institute, MIT, and GIZ

Check which campuses offer this program at tec.mx

A career field with countless paths

Energy consulting, efficient resource use, corporate sustainability, energy transition, environmental management, circular economy, social responsibility, climate innovation, public policy, ESG analysis, sustainable entrepreneurship.



The voices of those already making an impact

- **Juan Bazaldua** – President of the IDS Council and ESG specialist at PwC; advisor to Mexico's Central Bank and Ministry of Finance on climate risk.
- **Allison Olivares** – Global specialist at Vestas, a world leader in wind technology.
- **Luis Marmolejo** – Graduate internationally recognized for his research on quantum dots applied to sustainability.
- **Alessa Medina and Santiago Chapela** – Winners of the 2024 Santander Sustainable Challenge with Agroseta, a regenerative farming startup.

A glimpse of how our community creates real impact.



Skills you'll develop

- You'll design sustainable energy systems.
- You'll apply principles of circular economy, engineering, and science.
- You'll develop innovative corporate sustainability strategies for organizational resilience.
- You'll make decisions based on data and engineering experimentation.

Your ideas already imagine a fairer world. Here, you learn how to build it.

Take the first step toward a regenerative future.

Tecnológico de Monterrey

Curriculum
B.S. in Sustainable Development 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
- Numerical Analysis in Process Engineering
- Chemical Processes Thermodynamics
- Foundations of Natural Capital
- Fundamentals and Analysis of Electrical Circuits
- Mass and Energy Balances
- Tec Week Elective IV
- Tec Week Elective V

SEMESTER 4
- Elective Course Leadership, Entrepreneurship and Innovation
- Natural Resource Management
- Fundamentals of Fluid Mechanics
- Principles of Circular Economy
- Fundamentals of Heat Transfer
- Electrical Systems and Energy Monitoring
- Sustainable Projects Evaluation and Management.
- Disciplinary Tec week
- Tec Week Elective VI

SEMESTER 5
- Elective Course Ethics and Citizenship
- Efficiency in Energy Distribution Systems
- Fundamentals of Corporate Sustainability
- Assessment and Improvement of Production Processes
- Data Science for Sustainable Development
- Design of Thermal Systems
- Analysis of Circular Economy Applications
- Tec Week: Professional Life Planning
- Tec Week Elective VII

SEMESTER 6
- Organizational Sustainability Management
- Climate Change Management
- Materials Energy Valorization
- Energy Systems and Smart Grids
- Prospective Circular Engineering
- 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
- Capstone Project for Sustainable Development
- Tec Week: Strategies and Guides for the Final Degree
- 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.

Your future in SUSTAINABLE DEVELOPMENT ENGINEERING starts here.

WHY NOT?

RVOE: DEC-520912

Want more info?

Scan this QR to know more about this program.

tec.mx/ids