



**Info session Ruta Azul 2023 Call  
Applied research and Innovation fund**



Tecnológico  
de Monterrey



# RUTA AZUL IS TEC DE MONTERREY'S SUSTAINABILITY AND CLIMATE CHANGE PLAN FOR 2025

## **OUR ASPIRATION:**

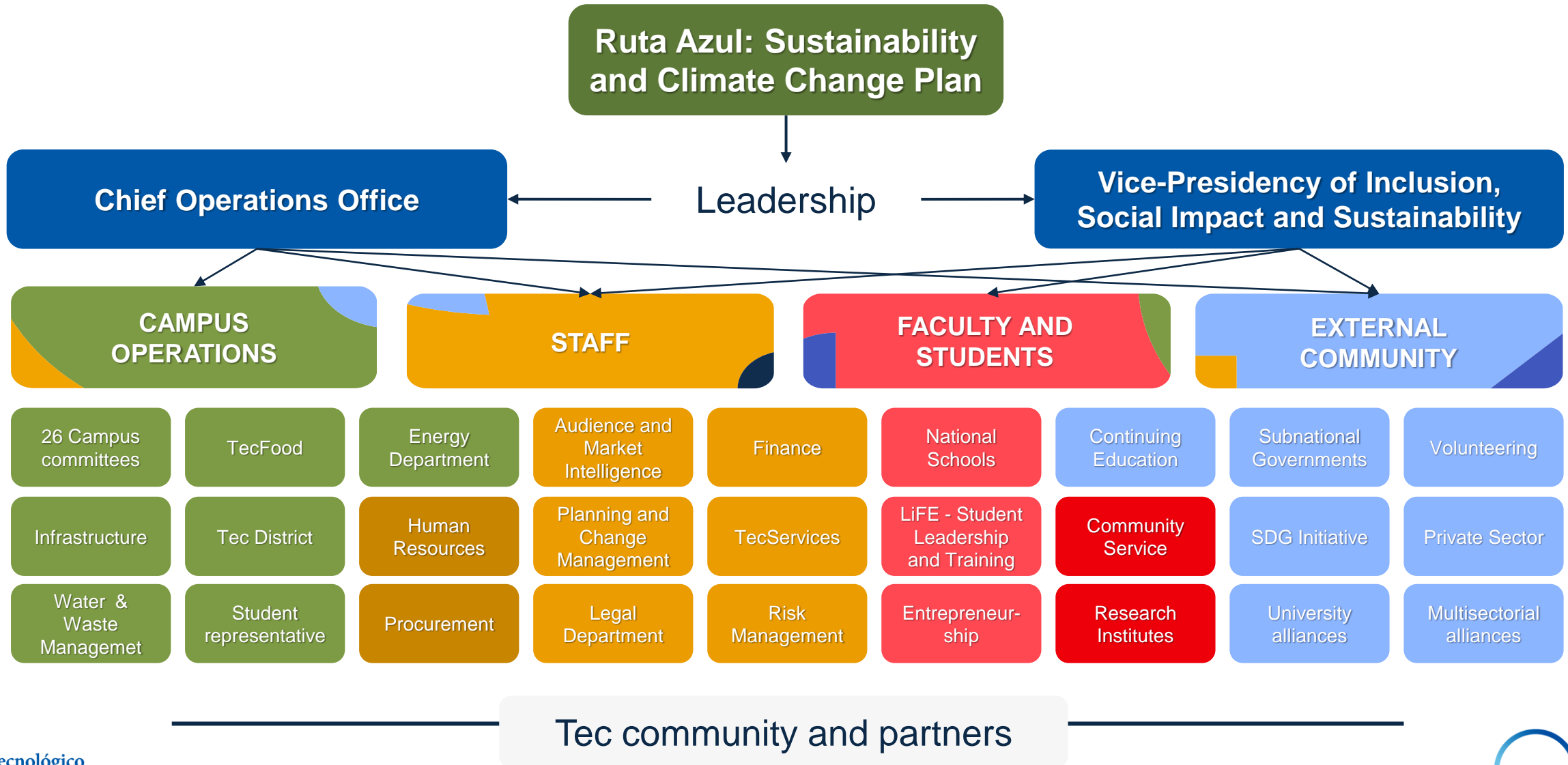
To build a sustainable future by adopting a proactive culture in the face of the climate emergency, reflected in actions of **MITIGATION**, **ADAPTATION**, **EDUCATION**, **RESEARCH** and, **OUTREACH**, which will lead us to **BE A MODEL OF A SUSTAINABLE INSTITUTION.**



# RUTA AZUL



# IT INVOLVES EACH AND EVERYONE OF US



AREA 1

# CULTURE

## MISSION

To promote decision-making with sustainability awareness.

## GOAL FOR 2025

To govern our administrative and operational processes with guidelines of environmental sustainability; and to involve our teachers, employees, and students in activities inherent to sustainable development.

## WORKING AREAS

Communication and Awareness campaigns, Experience, and Measurement.



# AREA 2

# MITIGATION

## MISSION

To reduce the environmental impact of our institution's operations.

## GOAL FOR 2025

To reduce our carbon footprint by 50% in Scope 1 and 2, our water consumption by 20%, and to ensure a sustainable waste management model at 100% of our facilities.

## WORKING AREAS

Emissions, Energy and Fuel, Water, and Waste.



# AREA 3

# ADAPTATION

## MISSION

To minimize the effects of climate change on our community and on neighboring communities.

## GOAL FOR 2025

For 100% of our Campuses to have an analysis of projected climate change impacts in order to develop adaptation plans based on cities and regions' vulnerability and climate risk diagnoses.

## WORKING AREAS

Climate Risks, Planning, and Training.



## AREA 4

# EDUCATION

### MISSION

To train leaders committed to forging a sustainable future.

### GOAL FOR 2025

To integrate education on climate change and sustainable development into undergraduate curricula.

### WORKING AREAS

Academic programs, training and evaluation, and academic certification.





# AREA 5

# RESEARCH

## MISSION

To promote interdisciplinary research in order to provide systemic solutions that address the complexity of climate change and favor sustainable development.

## GOAL FOR 2025

To create a fund to promote interdisciplinary research in sustainability and climate change and make Campuses living laboratories for research.



AREA 6

# OUTREACH

## MISSION

To catalyze climate action in society as a whole.

## GOAL FOR 2025

To be a leading actor in mobilizing climate action in Mexico.

## WORKING AREAS

Engagement, Alliances and networks, Education for the community, and Strategic projects.



# MAIN PROJECTS



Guide and sustainable events

Sustainability Culture Index

Ruta Azul communication's campaign



Reduction of greenhouse gas emissions: Scope 1, 2 and 3.

Energy efficiency projects

Water consumption reduction



Tree inventory

Water resilience projects

Manual of Best Practices for Sustainable Tree Management



Inclusion of climate change in the curricula

*How to include climate change in Teaching Practice? Guide*

Faculty Training in *Education for Sustainable Development*



Applied Research and Innovation Fund, Utilizing Our Campuses as "Living Laboratories"

*Education for Sustainable Development Track at Novus 2023*



Life Long Learning Green Academy

Ruta Azul Student Committee

Network of Mexican Universities for Climate Action



# Call for Ruta Azul applied research and innovation fund

April, 2023



# General objective

**To promote interdisciplinary research and applied innovation aimed on providing solutions to sustainability and climate change issues through the funding of research and innovation projects that use Tec de Monterrey campuses as living laboratories and aid the institution to achieve the goals set out in the Sustainability and Climate Change Plan 2025.**



# Campuses as living labs

This call seeks to allow the implementation or piloting of a project in a real environment, focused on the real needs of the campuses under the living labs model.

The use of campuses as living labs is proposed by defining them as spaces of interaction where new technologies, services, products, theories of change and/or systems for the solution of sustainability/CC problems are developed, tested, documented and validated in a real-life context, since university campuses function as a microcosm of society.

Proven solutions can also be scaled to local or regional environments.

## Campuses as living labs

### Daily operation

Scaling prototypes to real environments

Aid to achieve Ruta Azul goals

### Experience

Innovation in sustainability is a daily part of our campuses inhabitants

Our community adopting sustainable behaviours

# Ruta Azul, through its research area, and in collaboration with the vice presidency of research of Tecnológico de Monterrey, calls for:

Research professors from Tecnológico de Monterrey to propose innovative solutions that can be implemented on our campuses through one of the following challenges:

## Water Challenge

- *Aid to achieve the goals of Ruta Azul by 2025 in water consumption and circular water management with the implementation of technologies, strategies, or processes for saving or reusing water in the infrastructure and operations of the campuses and with the development of scenarios or models that aids us to minimize our water footprint.*

## Waste Challenge

- *Aid to achieve the goals of Ruta Azul by 2025 in waste management with the development of circular economy strategies applied to the management of organic and inorganic waste generated on our campuses or in their surrounding communities, for its integration into value chains or other production processes.*

## Reto en movilidad sostenible

- *Apoyar a alcanzar las metas de Ruta Azul al 2025 en reducción de emisiones de gases de efecto invernadero con la implementación de sistemas logísticos, modelos y proyectos de movilidad sostenible para el traslado de nuestro alumnado, profesores(as), colaboradores(as) y otros posibles aliados hacia nuestros campus y alrededores.*

### Ruta Azul Goals to 2025:

*To reduce our water consumption by 20%  
To achieve circular water management in our operations.*

### Ruta Azul Goals to 2025:

*That 100% of our campuses have a sustainable waste management model.  
To prevent 40% of our waste from reaching landfills.*

### Ruta Azul Goals to 2025:

*To reduce our greenhouse emissions by 50%*



## Attributes of the proposals

1. With preliminary evidence that **the outcome of the project will lead to improved and/or transformative products, processes, policies, or services that will benefit the institution and help achieve the goals of Ruta Azul.**
2. Related to any of the challenges listed above.
3. **With an execution time of 12 months.**



# How to submit your proposal?

<https://scienceconnexion.com/>

1. Once logged in to the platform, identify the Challenge-Based Research Funding Program 2023 and select Apply to create your proposal registration.
2. PI can add each team member through the Talent Tank (each member must create an account in Science Connexion previously).
3. The application must include all documents.
4. Science Connexion allows you to work on the proposal development at different time points, when the proposal is ready you must submit it. **Once submitted you won't be able to edit the proposal.**



## Who can apply?

Research Model Professors from National Schools and Interdisciplinary Institutes can apply as **Principal Investigators** for this call.

PIs submitting a proposal to this call (2023) AND leading a proposal for the call (2022) should demonstrate **they have submitted proposals externally** during the last 12 months (external funding is expected).

For Discovery Grants, special attention will be given to proposals submitted by Early-Career Researchers (ECRs) as PI.

### Team members may include:

Full-time research professors (Research Models: 75%, 50%, 25%)

Postdocs

PhD students.

Experts for specific tasks: Professors from *Tec (Vitalidad Intelectual)* and strategic universities.

Research units from the Interdisciplinary Research Institutes can invite professors from school to develop specific tasks/products using their allocated time to do research.

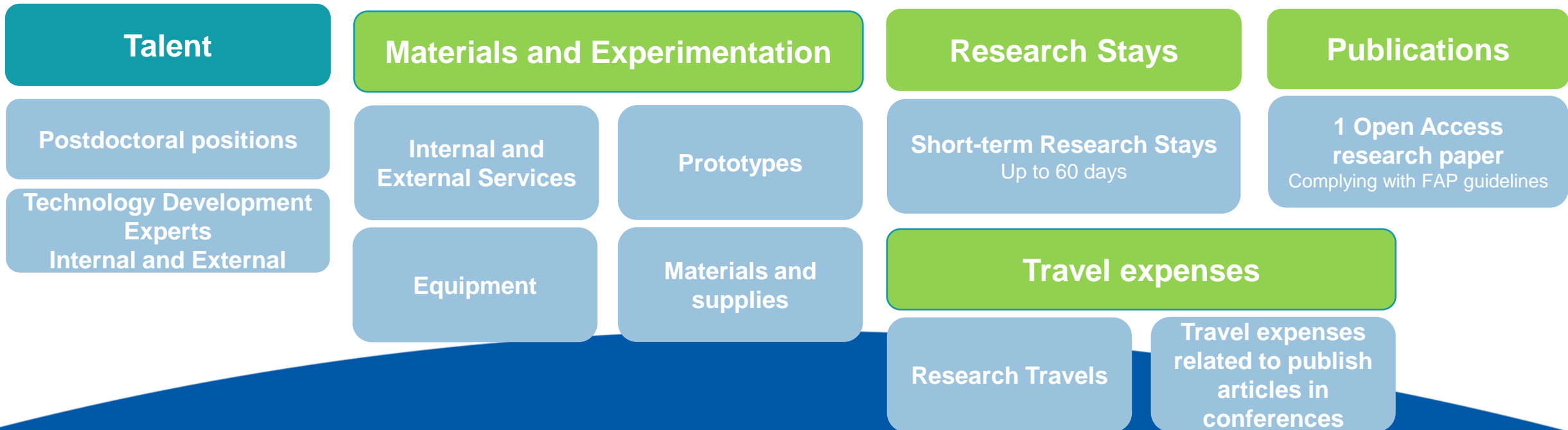
Research groups from the National Schools are allowed to invite professors from institutes to develop specific tasks/products using their allocated time to do research.

- Professor Researchers **involvement** in projects (2022) and new projects (2023) should be **less than 100%**



# Budget guidelines

Ruta Azul has an established fund of 10 million pesos to be allocated to the chosen projects proposed in accordance with the decision of the evaluation committee established by the Vice Presidency of Research, leaders of Ruta Azul and the National Operations Office of Tecnológico de Monterrey. We will fund up to 2.5 M pesos per proposal



# GET TO KNOW THE SECOND REPORT RUTA AZUL: ACHIEVEMENTS AND PROGRESS IN THE FACE OF THE CLIMATE CRISIS

## Route 2025

*The course is set*



<https://tec.mx/ruta-azul>



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