**Tecnológico de Monterrey**

**Challenge-Based Research Funding Program**

**Research Project Application Form**

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| **Directions:** |
| * It is necessary to read all the requirements before you begin completing this application. * Applications must be submitted in English. * Do not attach additional pages to your application, other than those specifically requested in this form. * Some fields are restricted to predefined lengths. * You must submit your application no later than October 20, 2023, at 23:59 hrs. Central Time. |

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| **Main Researcher** | |
| First name: |  |
| Last name: |  |
| Tec ID number (L0XXXXXXX): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| E-mail: |  |
| Short bio (300 words): |  |

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| **Project Description** |
| Project title:  Provide the title of your project. Choose a name that easily identifies your solution and distinguishes it from any other project. |
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| Modality:  Indicate the selected modality. |
| ☐ ***Ruta Azul applied research and innovation fund - 2023 Call*** |
| Challenge:  Indicate the selected challenge. |
| ☐ Water Challenge  ☐ Waste Challenge  ☐ Sustainable Mobility Challenge |
| Goal:  Each challenge serves the purpose to help us achieve Ruta Azul’s goals by 2025. Please select which goal would your project be impacting: |
| **Water Challenge**  ☐ to reduce our water consumption by 20%  ☐ to achieve circular water management in our operations  **Waste Challenge**  ☐ that 100% of our campuses have a sustainable waste management model  ☐ to prevent 40% of our waste from reaching landfills  **Sustainable mobility challenge**  ☐ To reduce our greenhouse gasses emission by 50% |
| Project summary (250 words):  Provide a brief description of your project in one short descriptive paragraph using language that can be easily understood by non-experts avoiding jargon and acronyms. This text will be used to communicate the Institute's main lines of work.  Be sure to address the following questions in your answer: What do you want to do? Why is this important? Who will benefit from its outcomes? Whom do you envision as your primary research partners? Who are the main project stakeholders? In which campus would this project be taking place?  **Annex the Research Impact Planning Canvas Template.** |
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| The general objective of the project (100 words):  The general objective of your study states what you expect to achieve (in general terms) with your research. |
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| Specific objectives (250 words):  Consider the information about research niches and technological observatory. |
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| Relevance of the project (700 words):  Explain what you expect to be the project's outcomes and impact, including the solutions that will branch out from the project. Be sure to address the following inquiries: Who is the benefited population? Why should Tec de Monterrey be involved in this project? Which scientific and technological basis allows Tec de Monterrey and the team to achieve the solution and international recognition? Who will be the leading research partners, and what are their main contributions to the project? |
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| Methodology (500 words):  Emphasize the methodologies that you intend to employ in your project, explain how they create a causal link to your short-term, intermediate, and long-term goals. |
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| Main stakeholders (300 words):  Describe the possible stakeholders of the project. Include campus operational areas you would be interacting with. |
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| Strategic university partners (500 words):  Suggest at least two partners with an established relationship to develop a medium-term work plan, indicate which capabilities the university will add to the team.  If you still do not have a relationship with any university, indicate no more than 5 from the Intelligence Report, explaining why they were selected. |
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| Project sustainability (500 words):  Describe the planned strategies and actions that are considered to promote the project’s financial sustainability (do not include internal financing). Beyond National Funds |
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| **Products Summary** | | | | | |
| In the following table summarize the products that will presented in each stage of project **do not repeat products which are collaborative**. (Collaborative products can only be accounted for once; for example: if “researcher A” will generate 3 articles and “researcher B” will generate 4 articles, but 2 of them are in collaboration, the total will be 5 articles).  The purpose of this section is to demonstrate a clear development plan associated with the project. It is not necessary to fill all the categories, only fill those in accordance with your proposal.  Annex a detailed Production Table per team member (included in Project Timeline and Milestones Template). Once that format has been completed, it be used to complete this section. | | | | | |
| **Summary of products** | **Stage 1**  **Jan24’ – Apr24’** | **Stage 2**  **May24’ – Aug24’** | **Stage 3**  **Sep24’ – Dec24’** | | **Total** |
| **1. Total SCOPUS articles** (This call only covers 1 article) |  |  |  |  | |
| **2.Total of projects with National/International R&D Funds** |  |  |  |  | |
| 2.1 Number of submitted proposals to National R&D Funds |  |  |  |  | |
| 2.2 Number of submitted proposals to International R&D Funds |  |  |  |  | |
| 2.3 Number of projects with stakeholders |  |  |  |  | |
| 2.4 Number of projects with other funds |  |  |  |  | |
| **3. Total amount of external funding for R&D MXN** |  |  |  |  | |
| 3.1 $ External funding for R&D projects with National funds MXN |  |  |  |  | |
| 3.2 $ External funding for R&D projects with international funds MXN |  |  |  |  | |
| 3.3 $ External funding for R&D projects with industry MXN |  |  |  |  | |
| 3.4 $ External funding for R&D projects with other funds MXN |  |  |  |  | |
| **4 Number of research Contracts** with external entities (Modality 2) |  |  |  |  | |
| **5 Team members** | | | | | |
| Number of professors in the research model |  |  |  |  | |
| Number of Faculty of Excellence (FOE) |  |  |  |  | |
| Number of Hiring of experts to produce specific products |  |  |  |  | |
| Number of Ph.D. students participating |  |  |  |  | |
| Number of Postdoctoral positions |  |  |  |  | |
| **6 Reputation** | | | | | |
| Number of members in the TOP 10% LATAM by their impact on citation |  |  |  |  | |
| Number of members in the TOP 30% WORLD by their impact on citation |  |  |  |  | |
| Number of members of SNI level II (if applies) |  |  |  |  | |
| Number of members of SNI level III (if applies) |  |  |  |  | |
| **Share additional relevant reputation credentials, specify the name and # of members with that acknowledgment (non-academic)** (Example: Academia Mexicana de Ciencias, International Committee Member, Awards, Research Chair in an International Organization) | | | | | |
| *\*Credential* |  |  |  |  | |
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| **Team Members and Contributions** | |
| For each member of the project, share their full name, email, responsibilities, and main contributions to the project (300 words/per member).  Show the products that each member will generate in the table *“Detailed Production Table”* (included in Project Timeline and Milestones Template).  Consider postdoctoral positions too, if there are shared postdocs, indicate who are the responsible researchers.  Indicate external partners if you have identified who they could be.  Use the necessary tables to add as many collaborators as required. | |
| 1 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 2 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 3 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 4 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 5 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 6 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 7 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 8 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
|  |  |
| 9 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Position: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |
| 10 |  |
| Name: |  |
| E-mail: |  |
| Tec ID number (if applies): |  |
| Institute of Research/School: |  |
| Unit/Research Group: |  |
| Responsibilities: | ☐ Researcher ☐ Postdoc ☐ Partner ☐ Faculty of Excellence  ☐ Doctoral Student ☐ Technology Development Experts |
| Main Activities |  |
| Main Outcomes |  |

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| Research Stays | |
| Please take in mind this modality only allows short research stays. | |
| 1 |  |
| Team Member who will do the research stay: |  |
| Host University: |  |
| Host Researcher: |  |
| Justification: (200 words) |  |
| Outcomes:  (List specific products) |  |
| Duration: |  |
| Stage: |  |
| 2 |  |
| Team Member who will do the research stay: |  |
| Host University: |  |
| Host Researcher: |  |
| Justification: (200 words) |  |
| Outcomes:  (List specific products) |  |
| Duration: |  |
| Stage: |  |
| 3 |  |
| Team Member who will do the research stay: |  |
| Host University: |  |
| Host Researcher: |  |
| Justification: (200 words) |  |
| Outcomes:  (List specific products) |  |
| Duration: |  |
| Stage: |  |
| 4 |  |
| Team Member who will do the research stay: |  |
| Host University: |  |
| Host Researcher: |  |
| Justification: (200 words) |  |
| Outcomes:  (List specific products) |  |
| Duration: |  |
| Stage: |  |
| 5 |  |
| Team Member who will do the research stay: |  |
| Host University: |  |
| Host Researcher: |  |
| Justification: (200 words) |  |
| Outcomes:  (List specific products) |  |
| Duration: |  |
| Stage: |  |

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| **Funding Requested** | |
| Indicate and describe the financial resources required to successfully implement your project.  Applicants must use the official Budget Template. | |
| Budget Narrative (250 words):  Offer a general overview of how your team would use the funding, including the projected needs by category. | |
|  | |
| Budget  Provide specific high-level line items for your work.  **Annex the official Budget Template.**  Once you fill this format, you can use it to complete this section. | |
| Items | Total Project Amount |
| **Talent** | |
| 1. Postdoctoral Position | $ |
| 1. Technology Development Expert by Services – External | $ |
| 1. Technology Development Expert by Fixed Time Contract | $ |
| **Research Stays** | |
| 1. Short-term Research Stays | $ |
| **Materials and Experimentation** | |
| 1. Internal and External Services | $ |
| 1. Prototype | $ |
| 1. Equipment | $ |
| 1. Materials and supplies | $ |
| **Publications** | |
| 1. Open Access journals and conferences | $ |
| **Travel expenses** | |
| 1. Research travels | $ |
| 1. Travel expenses related to publishing articles at conferences | $ |
| **Total amount** | $ |

Required Annexes:

1. Research Impact Planning Canvas
2. Project Timeline and Milestones Template
3. Budget Template
4. Intelligence report. Universities TOP10 in the areas of the Institute use to propose strategic partners.