**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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| **Principal Investigator** |
| 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: |
| Translational/Experimental Research Grants |
| Challenge:Indicate the selected challenge. |
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| Topic:Indicate the selected topic. |
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| 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?**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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| Description of the problem/opportunity:  |
|  |
| Description of the proposed solution:The description must contain the solution of the problem and general objective of project states what you expect to achieve (in general terms). |
|  |
| Analysis of the state of the art of the technology: The description must contain how advanced is the technology. |
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| Summary of main competitors or "next best alternatives |
|  |
| 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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| Description of the operating principle: |
|  |
| Requirements and specifications of the solution: |
|  |
| Main stakeholders (300 words):Describe the possible stakeholders of the project.  |
|  |
| Strategic university partners: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.  |
|  |
| Project sustainability: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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| Technological risks: |
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| Results and conclusions of the TRL prototype test ¾ |
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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 and modality.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’ – Jun24’** | **Stage 2****Jul24’ – Dec24’** | **Stage 3****Jan25’ – Jun25’** | **Total** |
| **1. Total SCOPUS articles** |  |  |  |  |
| **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 |  |  |  |  |
| **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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| **7. #Technology transfers (Modality 3)**  |   |   |   |   |
| 7.1 #IP applications - with potential for commercialization  |   |   |   |   |
| 7.2 Potential Commercialization of technology income MXN  |   |   |   |   |
| 7.3 Number of start-ups created  |   |   |   |   |

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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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| **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.  |
|  |
| BudgetProvide 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
 | $ |
| **Materials and Experimentation** |
| 1. Internal and External Services
 | $ |
| 1. Prototype
 | $ |
| 1. Equipment
 | $ |
| 1. Materials and supplies
 | $ |
| **Travel expenses** |
| 1. Travel required to scale technology
 |  |
| **Total amount** | $ |

Required Annexes:

1. Project Timeline and Milestones Template
2. Budget Template
3. TRL Calculator
4. Research Impact Planning Canvas