PRIMA Quebec-NRF Joint Research Program Proposal

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| **A.1–APPLICATION SUMMARY –** |

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| **Project title:(IN ENGLISH)** |  |
| **Project title:(IN FRENCH)** |  |

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| **Principal Investigator (Quebec)** | Name:  Tel.:  Email: | Organization:  Address : |

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| **Principal Investigator (Korea)** | Name:  Tel.:  Email: | Organization:  Address : |

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| **Signatures and dates (Quebec)** |  |  |
| Signature  Main academic | Print Name and Signature  Vice-rectorate or research office |

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| **Industrial and academic partners or public research centre in Quebec** | Main activity | Company | University | CCTT | Public research center |
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| **Industrial and academic partners or public research centre in Korea** | Main activity | Company | University | Public research center |
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| **Thematic focus**  (see instruction guide) | New or improved advanced materials  Formulated materials or finished or semi-finished products incorporating advanced materials  Processes, surface treatment, scaling  Additive manufacturing | Printable electronics  Characterization technique and instrument  simulation  Quantum technologies or materials  Use of artificial intelligence |

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| **Application sectors**  (several possible choices) | Transportation/Infrastructure  Energy  Environment  Textile | Chemistry  Microelectronics/telecommunication  Health  Other (specify): |

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| **INITIAL TRL LEVEL :** 1  2  3  4  5  6  7  8  9 |

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| **Executive summary in everyday language** |
| * "What it is" in one sentence (clearly indicate what is developed without preambles) * "What it gives" in a sentence or two (expected results, impact in Quebec and in Korea) |

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| **Abstract (Non-confidential summary of the project, in lay terms).***(in French)– 250 words maximum)* |
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| **Abstract (Non-confidential summary of the project, in lay terms).***(in English) – 250 words maximum)* |
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| **Resume of budget request** | | | |
| **Québec** | | **Korea** | |
| **1st Year** | Company (Cash): CAD  PRIMA (Cash): CAD  Complementary funding (Cash):  CAD | **1st Year** | Direct costs: KRW  Indirect costs: KRW |
| **2nd Year** | Company (Cash): CAD  PRIMA (Cash): CAD  Complementary funding (Cash):  CAD | **2nd Year** | Direct costs: KRW  Indirect costs: KRW |
| **Total** | **CAD** | **Total** | **KRW** |

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| **II – CONTEXT OF THE PROJECT** |

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| If this project comes from previous projects, then describes the history. And if this project is placed inside a larger project describe the larger project and the importance of the latter of this project submitted **(max 1 page)** |
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| **III - DETAILED PRESENTATION OF THE PROJECT** |

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| Describe the research project, including its environment (regulations, market trend, state of the art, etc.). Explain the possibility of carrying out this research project, specifying its anticipated objectives and results as they relate to the industrial partners’ needs. Specify the methodology and key scientific challenges to be met. **(maximum 5 pages)** |
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| **IV – PROJECT MANAGEMENT** |

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| 1. Present the project’s main activities in the form of a GANTT chart, **including key Go/No Go milestones**. |
| * **Québec** * Key activities * Project Schedule  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Year** | **Objectives** | **Schedule** | | | | | **1st Quarter** | **2nd Quarter** | **3rd Quarter** | **4th Quarter** | | 1st year |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | 2nd year |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  * **Korea** * Key activities * Project Schedule  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Year** | **Objectives** | **Schedule** | | | | | **1st Quarter** | **2nd Quarter** | **3rd Quarter** | **4th Quarter** | | 1st year |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | 2nd year |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

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| 1. **Specify all the academic and industrial collaborators:** Describe how the collaboration makes it possible to cover the different skills necessary for the accomplishment of the project. Specify the level of involvement of each member of the team.[[1]](#footnote-1) |
| **KOREA**   |  | | --- | | **Research establishment:**  **Principal Investigator (Name + email + phone):** | | **Name and title of all key researchers and their skills and contribution to the project:** |   **QUÉBEC**   |  | | --- | | **Research establishment:**  **Principal Investigator (Name + email + phone):** | | **Name and title of all key researchers and their skills and contribution to the project:** |  |  | | --- | | **Company:**  **Main contact (Name + email + phone):** | | **Name and title of all key researchers and their skills and contribution to the project:** | |
| 1. Describe how the project will be managed and the interaction and synergy between all partners **(maximum 2 page)**. |
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| **V – IMPACT AND SPINOFFS OF THE PROJECT** |

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| 1. Describe the intellectual property strategy **(maximum 1 page).** |
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| 1. **Benefits for the academic partner (s):** HQP training, knowledge enhancement (transfer, publications, intellectual property, etc.), technological developments (new products, processes, standards, methods, etc.), scientific expertise (acquisition, development or consolidation), use of infrastructure **(maximum 1 page)** |
| 1. **KOREA** 2. **QUEBEC** |
| 1. **Benefits for the industrial Quebec partner (s):** Technological developments, enhancement of knowledge, improvement of the company's positioning in the value chain (improvement of productivity, increase in sales or market share, diversification of production, investments, etc.), personnel.[[2]](#footnote-2) |
| |  | | --- | | **Company :** | | **Targeted numbers of jobs created or maintained** (check all that apply) | | Full time : Partial time :  Temporary :  Explanations : | | **Knowledge enhancement** (check all that apply)  Knowledge transfer PatentImprovement of know-howOther :  Explanations: | | **Commercial potential** (check all that apply)  New products Product improvements New processes Process improvements  Other : | | What is the target market?  Explanations: | | **Other targeted impacts for business and Quebec** (check all that apply)  Productivity, Environment, Social-economic, Other :  Explanations : | |

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| 1. **Expected Outcome** |
| **D1. Benefits for Quebec (maximum 1/2 page)** |
| Productivity,  Environment,  Social-economic,  Other :  Explanations : |
| **D2. Benefits for Korea (maximum 1/2 page)** |
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| **D3. Impact for Québec – Korea collaboration :** Description of the impact of the project on research and innovation activities as well as transfer and promotion of your organization, attraction of investments, clients and research contracts and of innovation, attraction of researchers or highly qualified personnel, consolidation of a research or innovation axis, development and strengthening of networking abroad, international mobility of researchers or the workforce, international influence , visibility, etc. **(max 1 page)** |
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| **D4. Continuation of the collaboration:** Do you see collaboration beyond the supporting period by this program? Please indicate how. **(max 1 page)** |
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| **VI – FINANCIAL FACET** |

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| 1. **RESEARCH MANDATE’S ESTIMATED BUDGET FOR QUEBEC**   Indicate all direct expenses eligible for the projects |

|  | The budget items highlighted below are eligible for the Indirect Research Cost. | **Year 1** | **Year 2** | **Total** |
| --- | --- | --- | --- | --- |
|  |  | (CASH ONLY) | | |
| **Salaries and fringe benefits[[3]](#footnote-3)** | | | | |
|  | 1st, 2nd and 3rd-cycle students |  |  |  |
|  | Postdoctoral research interns |  |  |  |
|  | Technicians |  |  |  |
|  | Researcher: |  |  |  |
|  | Other |  |  |  |
| **Equipment, Installations, Materials and supplies (max 25%)** | | | | |
|  | Rental |  |  |  |
|  | Purchase of Equipment[[4]](#footnote-4) (max $15K each) |  |  |  |
|  | Materials for tests and trials |  |  |  |
|  | Laboratory consumables |  |  |  |
| **Other[[5]](#footnote-5)** | | | | |
|  | Platform fees |  |  |  |
|  | Consultant fees |  |  |  |
|  | Sub-contracting costs |  |  |  |
| **Travel[[6]](#footnote-6)** | | | | |
|  | Travel to Quebec - Conferences |  |  |  |
|  | Travel to Quebec - Work |  |  |  |
|  | Travel to aboard - Conferences |  |  |  |
|  | Travel to aboard - Work |  |  |  |
| **Development activities** | | | | |
|  | Fees for dissemination of knowledge |  |  |  |
|  | Intellectual property management fees |  |  |  |
|  | Translation and design costs for legal documents for the consolidation of partnerships (maximum $ 10,000) |  |  |  |
|  | **TOTAL per year** |  |  |  |

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| 1. **RESEARCH MANDATE’S FINANCING PLAN QUEBEC** |

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| 1. **Cash financing only** | | | | |
|  |  | **Year 1** | **Year 2** | **TOTAL** |
| **Industrial partners (min. 20% of the research mandate)** | | | | |
|  | Industrial Partner: |  |  |  |
| **Public financing[[7]](#footnote-7)(max. 80% of the research mandate)** | | | | |
|  | PRIMA Québec (max 50%) |  |  |  |
|  | Additional funding (specify):  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |
|  | **TOTAL funding** |  |  |  |

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| 1. **For information, in-kind contribution from industrial partners** | | |
|  | Industrial Partner: |  |

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| 1. **ADDITIONAL CONTRIBUTIONS FROM INDUSTRIALS AND MEI** | | | |
| **Contribution to the management fees of PRIMA Québec** | | | |
|  | | From Industrial partners: equal to 3% of the amount of research mandate |  |
|  | | From MEI: equal to 2% of the amount of research mandate |  |
| **PRIMA Québec’s additional contribution to indirect costs of research if applicable** | | | |
|  | | 27% of the contribution of PRIMA Quebec to the search mandate for eligible costs.All financial partners must contribute to ICR |  |

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| 1. **SUMMARY OF FUNDING BY PRIMA** | | | |
|  | | Contribution to the Research Mandate |  |
|  | | Contribution from MEI (Management fees) |  |
|  | | Indirect Costs of Research (If applicable) |  |
|  | | **TOTAL funding from PRIMA**  (Max 225 000 $ for 2 years) |  |

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| Justify the expenses in relation to the main steps presented in section V, specify the financing plan **(no page limit)** |
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| **VII – BIBLIOGRAPHIC REFERENCES** |

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| List of bibliographical references **(maximum 2 pages)** |
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| **VIII - INFORMATION ABOUT THE FORM SUBMISSION** |

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| **For a submission to PRIMA**   * Should you encounter problems or have questions, do not hesitate to contact Sylvie Dufort, at 514 284-0211, ext. 228. * Email your duly signed application in single file - PDF format (Adobe Acrobat) **before noon, September25th, 2020 (Montreal times),** to: [sylvie.dufort@prima.ca](mailto:sylvie.dufort@prima.ca).   **Check list**   |  |  | | --- | --- | | ☐ | First page signed by the applicant AND by the establishment (Vice-rectorate or research office) | | ☐ | Form fully filled and maximum page number of rubrics respected | | ☐ | CV of the main contributors (academics and industrials) | | ☐ | Support letters from industrial partners specifying the amount of money and in kind allocated to direct research expenses | | ☐ | Have you informed the industrial partners of their contribution to the management fees of PRIMA Québec? | | ☐ | All project partners in Quebec (Industry and academics) must be a member of PRIMA Quebec if the request goes into a full proposal. | | ☐ | Funding will only be awarded upon proof that the complementary funding (NSERC, NRC-IRAP, or others) has been approved. **The complementary funding MUST be submitted within one week after the application at PRIMA** | | ☐ | Once the request for additional funding has been submitted, a copy must be sent to PRIMA Québec. |   **For a submission to NRF**   * Should you encounter problems or have questions, do not hesitate to contact Hyesoo Kim at (02) 3460-5725 or khsoo1017@nrf.re.kr. * Applications must be submitted to NRF e-R&D system(http://ernd.nrf.re.kr) **before 18:00 on September 25th 2020 (Seoul Time).** |

1. Attach the CVs of each researcher at the application form [↑](#footnote-ref-1)
2. Add as many tables as there are companies [↑](#footnote-ref-2)
3. Amounts related to the release of teachers to carry out project activities are not eligible. [↑](#footnote-ref-3)
4. Small equipment amortized for the duration of the project is authorized. [↑](#footnote-ref-4)
5. Outside services must be justified and accounts for a very small part of the budget. [↑](#footnote-ref-5)
6. Travel expenses must be justified, maximum 5% for travel in Quebec, max 15% including Quebec and International travel. [↑](#footnote-ref-6)
7. If there is several complementary funding, specify the amount for each source (add rows if necessary). Provide proof of additional funding (copy of the application once submitted). [↑](#footnote-ref-7)