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| **I - PROJECT IDENTIFICATION SHEET** |

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| Project submit at [ ]  PRIMA [ ]  PROMPT Contact Michel Lefèvre (514 284-0211 # 227, michel.lefevre@prima.ca) at PRIMA or Jinny Plourde (418 802-3337, jplourde@promptinnov.com) at Prompt in case of doubt or submit the request.Please note that the information given in the identification sheet section as well as the amount of the grant are public data and can be used by the MEI and PRIMA Quebec for promotional purposes. |

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

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| **Principal Investigator**  | Name:Tel.: | Establishment:Email: |

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| **Signatures and dates**  |  |  |
| SignatureMain academic | Print Name and SignatureVice-rectorate or research office |

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| **Academic partners or public research centre:**  | Main activity   | University | CCTT | Public centre |
| 1  |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |

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| **Industrial partners :**  | Main activity   | Business Number(NEQ) | Number of R&D employees in Quebec |
| 1  |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

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| **Quantum thematic axes**(several choices possible) | [ ]  Quantum communications[ ]  Quantum computation | [ ]  Quantum materials[ ]  Quantum metrology and detection |

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| **Thematic focus for PRIMA**(see instruction guide**)** | [ ]  New or improved advanced materials[ ]  Formulated materials or finished or semi-finished products incorporating advanced materials (eg sensors, chips)[ ]  Processes, surface treatment, scaling | [ ]  Additive manufacturing[ ]  Printable electronics[ ]  New characterization or simulation techniques[ ]  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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| **Starting TRL[[1]](#footnote-1)**1 [ ]  2 [ ]  3 [ ] 4 [ ]  5 [ ]  6 [ ]  | **End TRL[[2]](#footnote-2)**4 [ ]  5 [ ]  6 [ ] 7 [ ]  8 [ ]  9 [ ]  | **Project duration**  12 Month [ ]  24 Month [ ]   36 Month [ ]  |

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| **Executive summary in everyday language (in FRENCH)** |
| * « Ce que c’est » en une phrase (indiquer clairement ce qui est développé sans préambules):
* « Ce que ça donne » en une phrase ou deux (résultats attendus, nom des entreprises, impact pour eux et le Québec).
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| **Non-confidential summary of the project, in everyday language.** (IN FRENCH - 250 words maximum)In a few simple and popular sentences, describe:* + - 1. Why is this project necessary (what is the problem)?
			2. What does this project want to achieve and what are the expected results?
			3. What will be the spinoffs for industrial partners and for Quebec?
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| **II – CONTEXT OF THE PROJECT** |

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| If this project comes from previous projects and describes the history and if this project is placed inside a larger project describe the larger project and the importance of the latter of the project submitted to PRIMA. **(Maximum 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 3 pages)** |
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| **IV – JUSTIFICATION OF THE TECHNOLOGY READINESS LEVEL (TRL)** |

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| Justify the TRL you have assigned to this project. The contemplated TRL is the one at the start of the project within a context of research in Québec. **(Maximum 1 page)** |
| 1. Start TRL :
2. End TRL :
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| **V – SCHEDULE AND MILESTONES** |

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| * Present the project’s main activities in the form of a GANTT chart, **including key Go/No Go milestones**.
* Please indicate projects, sub-projects or activities related to MITACS internships.

**(Maximum 2 pages)** |
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| **VI – PROJECT TEAM** |

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| **PROJECT TEAM** 1. Name all academic and industrial collaborators (titles and affiliations). Describe how this collaboration makes it possible to cover the various competencies needed to carry out the project. Specify the degree of involvement of each member of the team, including, **among others, the level of interaction and synergy among the various academic and industrial players**.
2. Describe how project management will take place.

**(Maximum 2 pages). Attach the CVs of the key stakeholders (academic and industrial) as well as letters of support from industrial partners.**  |
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| **Project indicators** |
| **Researchers:** number of researchers involved in the project, including the principal applicant |  |
| **Employees of research centers:** number of employees of the centers involved and whose salaries are partially paid by the project (eligible expenses) |  |
| **Employees of partner companies:** number of company employees **involved** in the project. Their contribution is, for example, recorded as a contribution in kind. |  |
| **Students:** number of students receiving a scholarship or doing an internship. |  |

1. The team and collaboration of the project[[3]](#footnote-3) :

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| **Research establishment # 1:****Main contact (Name + email + phone):** |
| **Name and title of researcher # 1:** **Skills and contribution to the project:**  |

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| **Industrial #1:****Main contact (Name + email + phone):** |
| **Name and title of researcher # 1:** **Skills and contribution to the project:**  |

1. Project management:
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| **VII – IMPACT AND SPINOFFS OF THE PROJECT** |

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| **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)** |
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| **Benefits for the industrial partner (s) and Quebec:** 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.Add as many tables as there are companies |
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| **Company # 1:** |
| **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 [ ]  Patent [ ]  Improvement of know-how [ ]  Other:Explanations:  |
| **Commercial potential** (check all that apply)Does this project strengthen your current market or lead you to new markets? Thanks to[ ]  New products [ ]  Product improvements [ ]  New processes [ ]  Process improvements[ ]  Other:Specify the region of your current market or new target markets?[ ]  Québec, [ ]  North America, [ ]  South America, [ ]  Africa, [ ]  Asia, [ ]  Europe [ ]  Other: Explanations and justifications for the commercial potential: |
| What influence do you foresee that this project will have on the growth of your turnover in the medium term? |
| **Other targeted impacts Quebec** (check all that apply)[ ]  Environment, [ ]  Economic social, [ ]  Impact on the sector of activity [ ]  Others: Explications:  |

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| Impacts for the adoption of quantum technologies in the business sector. **(Maximum 1 page)** |
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| **VIII – FINANCIAL FACET** |

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| 1. **RESEARCH MANDATE’S ESTIMATED BUDGET**

Indicate all direct expenses eligible for the projects |

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| **In the case of a university collaborating with a CCTT or a public research centre,** it is necessary to append a copy of this table with only expenses on the university side to allow the calculation of FIRs**.** |

|  | The budget items highlighted below are eligible for the Indirect Research Cost. | **Year 1** | **Year 2** | **Year 3** | **Total** |
| --- | --- | --- | --- | --- | --- |
|  | (CASH ONLY) |
| **Salaries and fringe benefits[[4]](#footnote-4)** |
|   | Technicians |  |  |  |  |
|   | Researcher: |  |  |  |  |
|  | Other |  |  |  |  |
| **Students grant** |
|  | 1st, 2nd and 3rd-cycle students |  |  |  |  |
|   | Postdoctoral research interns |  |  |  |  |
| **Materials and supplies** |
|   | Materials for tests and trials |  |  |  |  |
|   | Laboratory consumables  |  |  |  |  |
| **Equipment or installations (Max 25%)** |
|   | Rental |  |  |  |  |
|  | Equipment[[5]](#footnote-5) (max $15K each) |  |  |  |  |
| **Travel[[6]](#footnote-6)** |
|   | Conferences or conventions  |  |  |  |  |
|   | Field work  |  |  |  |  |
|   | Work-related travel |  |  |  |  |
| **Other** |
|   | Platform fees |  |  |  |  |
|   | Outside services[[7]](#footnote-7) |  |  |  |  |
|   | Prototypes  |  |  |  |  |
|   | Fees for dissemination of knowledge |  |  |  |  |
|   | Intellectual property management fees |  |  |  |  |
| **Industrial contribution in kind** |
|   | Salaries of researchers/scientists |  |  |  |  |
|   | Salaries of technicians/engineers  |  |  |  |  |
|   | Equipment time |  |  |  |  |
|   | Donated materials |  |  |  |  |
|   | Others: |  |  |  |  |
|  | **Budget TOTALS** |  |  |  |  |

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| 1. **RESEARCH MANDATE’S FINANCING PLAN**
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| **For any MITACS funding, please contact an advisor to** ensure the correct budget calculation. MITACS must be separated into its components and the total of MITACS grants cannot exceed 50% of the research budget. |

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| 1. **Cash funding only**
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|  |  | **Year 1** | **Year 2** | **Year 3** | **Total** |
| **Industrial partners[[8]](#footnote-8) (min. 40% of the research mandate)** |
|  | Partner (in cash, including MITACS contribution if applicable): |  |  |  |  |
|   | Partner (i-kind, contribution, max 20% of the research mandate): |  |  |  |  |
| **Public financing (max. 60% of the research mandate)** |
|   | PRIMA Québec  | Max 40% |  |  |  |  |
| MITACS (enter only the provincial amount in this line) |  |  |  |  |
|   | Additional funding (specify)[[9]](#footnote-9) :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |
|  | MITACS (enter only the federal amount in this line)Please specify the number of units \_\_\_\_\_ |  |  |  |  |
|  | **TOTAL du financement** |  |  |  |  |

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| 1. **ADDITIONAL CONTRIBUTIONS FROM INDUSTRIALS AND MEI**
 |
| **Contribution to the management fees of PRIMA Québec[[10]](#footnote-10)** |
|  | Industrial partners: equal to **3% of the amount of research mandate** |  |
|  | MEI: equal to **2% of the amount of research mandate** |  |
| **PRIMA QUÉBEC’s contribution to indirect research cost, if applicable** |
|   | Maximum 27% of the contribution of PRIMA Quebec to the search mandate for eligible cost. All financial partners must contribute to FIR |  |

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| 1. **SUMMARY OF FUNDING BY PRIMA**
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|  | Contribution to the Research Mandate |  |
|  | Contribution from MEI (Management fees) |  |
|  | Indirect Research Cost (If applicable) |  |
|  | **TOTAL funding from PRIMA**(max 500 $k/year, Max 750 000 $ for 3 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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| **IX – BIBLIOGRAPHIC REFERENCES** |

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| List of bibliographical references: **(Maximum 2 pages)** |
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| **INFORMATION ABOUT THE FORM SUBMISSION** |

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| **For a submission to PRIMA*** Are you having difficulties, do you have questions? Do not hesitate to contact your advisor or Michel Lefèvre michel.lefevre@prima.ca, 514-284-0211 ext 227.
* Email your duly signed application in single file - PDF format (Adobe Acrobat) **before 16h00**, **November 30, 2021,** to: laura.salatian@prima.ca.

**For a submission to PROMPT*** Should you encounter problems or have questions, do not hesitate to contact Jinny Plourde, 418 802-3337 or jplourde@promptinnov.com.
* Email your duly signed application in single file - PDF format (Adobe Acrobat) **before 16h00**, **November 30, 2021, to**: projets@promptinnov.com

**Check list**

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| --- |
|[ ]  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) |
|[ ]  Letters of support from all industrial partners |
|[ ]  Have you informed the industrial partners of their contribution to the management fees of PRIMA Québec or PROMPT? |
|[ ]  Are all project partners members of PRIMA Québec or PROMPT at the time of filing your application? |
|[ ]  Funding will only be awarded upon proof that the complementary funding (NSERC, NRC-IRAP, or others) has been approved.Once the request for additional funding has been submitted, a copy must be sent to PRIMA Québec or PROMPT |

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1. The project must start between TRL 1 and 6. [↑](#footnote-ref-1)
2. The project must finish at least between TRL 4 and 6. [↑](#footnote-ref-2)
3. Add table if necessary [↑](#footnote-ref-3)
4. Amounts related to the release of teachers to carry out project activities are not eligible. [↑](#footnote-ref-4)
5. Small equipment amortized for the duration of the project is authorized. [↑](#footnote-ref-5)
6. Travel expenses must be justified and accounts for a very small part of the budget. [↑](#footnote-ref-6)
7. Outside services must be justified and accounts for a very small part of the budget. [↑](#footnote-ref-7)
8. Give the amount for each manufacturer (add rows if more than 1 manufacturer), allocated only for direct project expenses. [↑](#footnote-ref-8)
9. If there is more than one fund, specify the amount for each source (add lines if necessary). Provide proof of additional funding (copy of the request once filed and when obtained). [↑](#footnote-ref-9)
10. Maximum 50 000$ (Industrial partners + MEI) [↑](#footnote-ref-10)