**Expression of Interest (EOI) Form**

**–**

**Genomic Innovations: Energy and Environmental Solutions**

Please complete the information in full. EOIs should be written single-spaced, size 11 Arial font, with standard margins.

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| **Project Title** |  |
| **Total budget request (requested funding + co-funding)** |  |
| **Funding requested from Genome Alberta (up to $250,000)** |  |
| **Project Duration (up to a maximum of 24 months)** |  |
| **Project Leader(s) including Affiliation(s)** |  |
| **Project Leader(s) Contact (Email & Phone)**  |  |
| **Technical Readiness Levels (TRL)** | **At Project Start:** | **At Project End:** |

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Date Signature of Project Leader

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| **Co-Applicant(s) Name[[1]](#footnote-2):** | **Affiliations and Contact Information**  |
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**INDUSTRY PARTNER SOLLICITATION**

To assist you in soliciting co-funding, we have an opportunity to share this proposal with industry and interprovincial partners. Interested partners would be able to contact you directly to discuss the potential to partner and contribute to this proposal’s co-funding requirements. Your selection here will not impact funding decisions.

[ ]  I consent to Genome Alberta to confidentially share this EOI with industry partners through the application process for potential partners and co-funding considerations.

[ ]  I do not consent to Genome Alberta to confidentially share this EOI with industry partners through the application process for potential partners and co-funding considerations.

If you have consented to share this proposal with industry and/or interprovincial partners listed in the guidelines (Emissions Reduction Alberta, Genome BC and/or the Petroleum Technology Alliance of Canada), select the relevant organization(s) to which your proposal aligns with:

[ ]  Emissions Reduction Alberta

*Emissions Reduction Alberta will consider funding projects that are at higher Technology Readiness Levels (Levels 6 to 8; see Appendix 3) and that propose innovative solutions to reduce greenhouse gas emissions. It is important to note that Emissions Reduction Alberta has its own project adjudication process. If a project is referred to Emissions Reduction Alberta for consideration, additional information and/or a separate application may be required.*

[ ]  Genome British-Columbia

*Genome BC will support projects utilizing genomics-enabled technologies and synthetic biology to reduce environmental impacts and promote sustainable practices in the extractive industries (e.g. mining, oil and gas). Genome BC aims to foster research collaboration between Alberta and British Columbia (BC) by providing matching cash contributions to projects that involve research conducted in BC. Genome BC will only flow funds directly to BC-based research institutions, and Genome BC funds must be spent in the Province of BC.*

[ ]  Petroleum Technology Alliance Canada

*PTAC is interested in projects in the topics that addresses policy issues or knowledge gaps listed on PTAC's website, and that are further listed below. Projects will require to be at higher Technology Readiness Levels (Level 6 and above; see Appendix 3). Applicants interested to develop projects under the areas listed below should reach out directly to PTAC in advance of the submission deadline to ensure alignment.*

Please select which project your proposal is related to:

[ ]  A provincial assessment of the critical habitat areas for the brown and northern myotis species.

[ ]  Development of an eDNA kit for short-horned lizards.

[ ]  The development of biodiversity data for the sharp-tailed grouse.

[ ]  New technologies to improve produced water recycling in H2S environments.

**RESEARCH PROJECT**

Please respond to all questions within the boxes provided. Do not exceed the maximum page limit. List key references in Appendix I.

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| *What is the key near-term energy ecosystem need or gap that the project addresses? How does the project address the need or gap by advancing and/or employing a genomics-based approach that will lead to an adoptable output? Provide background R&D and other evidence to support the scientific rationale and include any shortcomings of current solutions.* *(Max 1 page)* |

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| *Provide a project description, including a summary of activities. (Max 1 page)* |

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| *Describe project deliverables and anticipated benefits for Alberta’s energy sector (benefits must be clear, well-defined and quantifiable). Expand on the adoptable output(s) that will result from the project. (Max ½ page)* |

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| *Describe the project team’s capacity (experience, expertise) and connections to Alberta’s energy sector (including collaboration with industry stakeholders) that apply to the successful implementation of this project. (Max ½ page)* |

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| *Considering the co-funding requirements, briefly describe potential sources of co-funding (difference between Project budget and Genome Alberta contributions) that you hope to include as part of the overall budget in the full proposal by competing the Table below.* ***Note: Projects need to have an energy industry stakeholder as a financial contributor (cash or in-kind).***  |
| Funding Source | Funding Type[[2]](#footnote-3) | Brief Description | Estimate value ($) |
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**SUGGESTED REVIEWERS**

Please complete the following tables to assist in selecting appropriate reviewers for the review panel. Note that the final selection of reviewers is at the funder's discretion.

Please provide the names, contact information and expertise of **eight (8)** individuals capable of reviewing the proposed project, who do not currently reside or work in Alberta and with whom the project team has no conflict of interest.

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| **Last Name** | **First Name** | **Affiliation** | **Email address** | **Expertise** |
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Reviewers to whom you would prefer that your research plan NOT be sent: These individuals could include those with whom any research team member has had long-standing differences, which could reasonably be viewed as affecting the reviewer’s objectivity. Direct competitors should not be included unless there is a conflict of interest. Please ensure that you provide clear justification for not recommending any particular individual as a reviewer.

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|  Last Name | First Name | Affiliation | Justification |
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**Appendix I - References**

1. Reminder that an industry sector user must be includes as either Project co-lead or co-applicant [↑](#footnote-ref-2)
2. Funding Type includes: unrestricted cash, restricted cash (as specified by funder), and in-kind contribution. [↑](#footnote-ref-3)