



Guidelines for Funding Research Projects

June 2014

NOTE: These are general guidelines that apply to all projects funded by Genome Canada. Specific Requests for Applications will note any exceptions to these guidelines or have additional guidelines applicable to projects funded in that particular competition.



GenomeCanada

Contents

1.	Vision, Mission and Objectives of Genome Canada	3
2.	Support of Genomics Research Projects	3
3.	General Guidelines	4
3.1	Investigator Eligibility	4
3.1.1	Participant Categories.....	4
3.2	Ethical, Environmental, Economic, Legal and Social Aspects of Genomics Research (GE ³ LS)	5
3.2.1	Integrated GE ³ LS.....	5
3.2.2	Large-Scale GE ³ LS Research.....	6
3.3	Social and/or Economic Benefits	6
3.4	Requirement for Technology Services from Others.....	6
3.5	Handling of Data and Resources	7
3.5.1	Data and Resource Management	7
3.5.2	Data Analysis.....	7
3.5.3	Data and Resource Sharing	7
3.5.4	Intellectual Property	7
3.5.5	Access to Research Publications	8
3.6	Acknowledgement of the Contribution of the Government of Canada	8
4.	Application and Evaluation Procedures	8
4.1	Registration	9
4.2	Pre-Application	9
4.3	Full Application	10
5.	Project Management and Oversight	10
5.1	Project Managers.....	10
5.2	Research Oversight Committee	11
6.	Interim Review	11
7.	Funding.....	11
7.1	Eligible Costs.....	11
7.2	Co-funding	14
7.2.1	Eligible Co-funding.....	14
7.2.2	Documentation Required to Support Co-funding.....	15
8.	Administration	17
8.1	Project Readiness.....	17
8.2	Conditions for Release of Genome Canada Funds	17
8.3	Management of Funding	19
8.4	Accountability, Reporting and Performance Measurement.....	19
8.5	Management of Changes to Genome Canada-Funded Projects	20
8.6	Final Reports	20

1. VISION, MISSION AND OBJECTIVES OF GENOME CANADA

As stated in Genome Canada's Strategic Plan for 2012-17, Genome Canada's vision is to harness the transformative power of genomics to deliver benefits to Canadians. Its mission is to lead the Canadian Genomics Enterprise by:

1. Connecting ideas and people across public and private sectors to find new uses and applications for genomics;
2. Investing in large-scale science and technology to fuel innovation; and,
3. Translating discoveries into applications to maximize impact across all sectors.

Genome Canada is committed to increasing Canada's position among the world leaders in genomics¹ research in key areas such as health, agriculture, energy, environment, forestry, fisheries, mining and technology development. It is also committed to a leadership role on the ethical, environmental, economic, legal and social aspects and potential implications associated with genomics research (GE³LS), and to communicating with Canadians on these and other issues.

Genome Canada will fulfill its mission through its four objectives:

- i. Respond to societal needs by generating discoveries and accelerating their translation into applications.
- ii. Attract greater investment in genomics research from a broad range of stakeholders, in particular, the private sector.
- iii. Enhance the impact of genomics by transforming knowledge of the ethical, environmental, economic, legal and social challenges and opportunities into sound policies and practices.
- iv. Enhance the recognition of the value of genomics by increasing stakeholder appreciation of genomics, its application and implications.

2. SUPPORT OF GENOMICS RESEARCH PROJECTS

In support of its objectives, Genome Canada funds and manages milestone-driven research projects across its seven strategic sectors (agriculture, energy, environment, fisheries, forestry, health and mining). Its international peer review process, which assesses research excellence and benefits for Canada, and its due diligence review of management and financial capabilities, ensures that funding is awarded to only the very best projects – measured by international standards of excellence. The projects must be of a scale and scope appropriate for the goals of the particular competition, be internationally competitive and have the potential for major impact. To pursue the advancement of genomics in Canada and to maximize its effectiveness, Genome Canada encourages research collaboration across Canada and internationally.

¹ The term genomics is defined here as the comprehensive study, using high throughput technologies, of the genetic information of a cell or organism, including the function of specific genes, their interactions with each other and the activation and suppression of genes. For purposes of describing Genome Canada's mandate it also includes related disciplines such as bioinformatics, epigenomics, metabolomics, metagenomics, nutrigenomics, pharmacogenomics, proteomics and transcriptomics.

Six Genome Centres located across Canada, support genomics research at a regional level. They assist applicants in preparing competitive applications, facilitate access to genomics technology service providers, help projects with aspects of project development and management and, working with the applicants, are responsible for securing necessary co-funding. The Genome Centres are responsible for selecting which projects to put forward to Genome Canada. Once projects are approved, the Genome Centres have the lead in ensuring their effective management and monitoring.

Genome Canada will formally recognize projects as being co-led by two or more Genome Centres in instances where the project is: undertaking research in at least two different regions of the country; led by two or more Project Leaders, with each contributing similar intellectual input to the project; and, comprised of an approximately equal split in funding between the institutions in the different regions.

3. GENERAL GUIDELINES

3.1 Investigator Eligibility

Genome Canada funds can be awarded to researchers and scholars affiliated with the following institutions and organizations:

- Canadian post-secondary organizations and their affiliated institutions including hospitals and research institutes;
- Canadian non-federal government departments or agencies and not-for-profit organizations (including community or charitable organizations) with an explicit research or knowledge-translation mandate.

Research teams may include as co-applicants international, private sector (for-profit organizations), or federal laboratory scientists. However, Genome Canada funding is restricted to work performed within Genome Canada eligible institutions, i.e., Genome Canada will not support research to be undertaken outside Canada, in for-profit organizations or in federal laboratories, except for costs incurred based on a reasonable fee-for-service arrangement or contract.

3.1.1 Participant Categories

Project Leader

Each project must identify one Project Leader. The Project Leader of a Genome Canada funded project is responsible for the intellectual direction of the proposed research and assumes administrative and financial responsibility for funds which will be paid to their institution.

In applications where the responsibility for the intellectual direction of the research is shared more or less equally between two or more individuals the project may also nominate a co-Project Leader.

Although investigators from federal laboratories, the private sector or outside of Canada may share the responsibility for the intellectual direction of the proposed research, they cannot assume the administrative and financial responsibility for the funds and

therefore, cannot be the sole Project Leader of a Genome Canada funded project. However, they can be a co-Project Leader.

Co-Applicant

A Co-Applicant is a researcher who makes a substantial intellectual contribution to the proposed research and who will be involved in the day-to-day execution of the project. Co-Applicants will likewise be responsible for the funds paid to their institutions.

Collaborator

A Collaborator is an individual who is not involved in the day-to-day execution of the research, but whose role is to provide a specific service or expertise (e.g., access to equipment, provision of specific reagents, training in a specialized technique, statistical analysis, access to a patient population, etc.).

End-User

End-users are defined as organizations (and/or individual(s)) who represent end-user organizations) that are able to use the information generated through research to make informed decisions on issues such as practice guidelines and standards, policies, programs and product development.

3.2 Ethical, Environmental, Economic, Legal and Social Aspects of Genomics Research (GE³LS)²

3.2.1 Integrated GE³LS

Unless specified otherwise in a Request for Applications (RFA), all large-scale genomics projects must include an investigation into some ethical, economic, environmental, legal and/or social (GE³LS) challenges or opportunities of considerable significance to the proposed genomics research, its objectives and/or expected outcomes. Such investigations should be carried out by Co-Applicants with relevant expertise, as the overarching objective of integrated GE³LS research is to support collaboration between genomic scientists and GE³LS researchers throughout all aspects of research projects to advance knowledge creation and its translation³.

To identify salient GE³LS research questions, Project Leaders are encouraged to consult researchers with expertise in GE³LS-related disciplines or GE³LS programs staff of the regional Genome Centres or Genome Canada⁴.

As members of an integrated team, GE³LS co-applicants should be actively engaged in the early stages of project development to provide strategic input into the research design and the budget planning process, accordingly and should remain involved throughout the course of the project as integral members of the research team.

² The acronym GE³LS stands for “Genomics and its Ethical, Environmental, Economic, Legal and Social aspects”. However, it should be understood broadly as genomics-related research endeavors and related activities undertaken from the perspective of the social sciences and humanities. Therefore, it is not strictly limited to disciplines that make-up the acronym but rather encompasses all those that rely on quantitative and qualitative methodologies to investigate genomics in society, and help establish a basis to inform applications, practices and policies.

³ Summaries of previously-funded integrated GE³LS projects are available online at <http://www.genomecanada.ca/en/ge3ls/research/>

⁴ See GE³LS contact details at each of the regional Genome Centres: <http://www.genomecanada.ca/en/ge3ls/contact.aspx>

GE³LS Co-Applicants are expected to develop a scholarly research plan that is directly related and complementary to, the proposed milestones of the overall genomics project and also represents a systematic investigation designed to advance generalizable knowledge in relevant academic fields.

GE³LS Co-Applicants are encouraged to coordinate, wherever possible, with other GE³LS researchers working on similar questions in other Genome Canada-funded projects to maximize opportunities for synergies and minimize potential duplication.

In addition to the above requirements, GE³LS expertise could be sought out, as needed, through appropriate involvement in the project's proposed governance structure (for example, GE³LS membership on Research Oversight Committees) and/or through close alignment with end-users or other stakeholders involved in the project.

3.2.2 Large-Scale GE³LS Research

Depending on the RFA of a particular competition, large-scale GE³LS research projects that investigate in an innovative and comprehensive manner significant challenges and/or opportunities in achieving the objectives of the RFA are eligible for support. It is expected that large-scale GE³LS projects would demonstrate active engagement with the genomics scientific community in the planning of the research and its conduct. This may entail sustained interactions with other projects and/or their integrated GE³LS components.

3.3 Social and/or Economic Benefits

All applications must describe, with supporting evidence, the deliverable(s) that will be realized by the end of the project that will lead to social and/or economic benefits for Canada. For more details on social and/or economic benefits as they pertain to any particular competition, refer to that competition's RFA.

Where appropriate, for example when new products and/or services will be developed, a clear commercialization process, which includes intellectual property (IP) management and ownership, technology transfer and benefit sharing, must be described. While eligible costs include those related to the development of the plan to realize benefits, costs associated with subsequent commercialization are not eligible (e.g., product development, testing, and marketing – see the Eligible Costs, section 7.1 for more details).

3.4 Requirement for Technology Services from Others

Applications for support of a research project must include a detailed description of all outsourced technology services that will be required. It is the obligation of the project team to understand and describe the science that will be outsourced. The leaders of projects should work with their Genome Centre to determine the technologies required for the proposed research and to decide how best to satisfy these requirements. The request for services from all providers must be described in the research proposal and further detailed in the *Services from Others* section of the budget form. Applications must include letters from service providers, a description of the service(s) to be provided, unit costs, number of units required, personnel requirements, data analysis requirements, and other relevant details.

Genome Canada will be establishing the Genomics Innovation Network (GIN) as of April 1, 2015. Its members (designated Nodes) will provide researchers access to high throughput genomic technologies, such as DNA sequencing, RNA expression, protein identification and quantitation, and metabolomics, as well as new method and protocol development, data analysis and bioinformatics. Each Node will also assist researchers in the development of research proposals by providing advice on appropriate technologies, study design, data analysis and bioinformatics that improve the quality of the research.

Although Project Leaders are encouraged to work with Genome Canada's GIN Nodes, they may use other fee-for-service providers, either Canadian or foreign. Project Leaders must include a justification for their choice of fee-for-service providers and, for out of country fee-for-service providers, include the reasons for not using a Canadian-based alternative. Results from the review of applications to become GIN Nodes will be available to the regional Genome Centres by the end of December 2014.

3.5 Handling of Data and Resources

3.5.1 Data and Resource Management

Applications must include clearly defined plans for managing the data and resources to be generated.

3.5.2 Data Analysis

Unless specified otherwise in the RFA, applications must present a clear plan for the analysis of data. The plan must include: i) a diagram showing the data flow for the information created from all project components, ii) a description of the data flow, iii) a description of the analysis strategies for the data, iv) a plan for the long-term preservation (archiving) of the analysis results and, where appropriate, raw data; and v) a description of personnel requirements to realize the data analysis.

3.5.3 Data and Resource Sharing

All Genome Canada funded projects must comply with Genome Canada's policy on [Data Release and Resource Sharing](#). Genome Canada expects researchers to share data and resources as rapidly as possible. Where the goal of the project is to produce data or resources for the wider scientific community, the project must follow the data release and resource sharing principles of a "Community Resource Project", defined as "a research project specifically devised and implemented to create a set of data, reagents or other material whose primary utility will be as a resource for the broad scientific community". A project's Data Release and Resource Sharing plan must be approved by Genome Canada and must remain current with internationally accepted standards.

3.5.4 Intellectual Property

Ownership of intellectual property created or acquired as part of projects in which Genome Canada is directly or indirectly involved shall be in accordance with each of the participant's (i.e., Federal or Provincial government departments or Crown Corporations, private sector companies, universities, research hospitals or any other participants) internal intellectual property policy and Provincial and or Federal legislation, if applicable (See Section 1 of

[Genome Canada's Intellectual Property policy](#)) Applicants should also contact their Genome Centre for information on specific Genome Centre guidelines related to intellectual property.

3.5.5 Access to Research Publications

Research publications are an important output of the research funded by Genome Canada and free, online access to these publications is paramount. Genome Canada recommends that peer reviewed publications that have been supported, in whole or in part, by Genome Canada be made freely accessible online, in a central or institutional repository, as soon as possible, and, at the latest, six months after the publication date. Genome Canada encourages the scientists it funds to publish wherever is best for their work. Specific recommendations can be found in the [Genome Canada Policy on Access to Research Publications](#)

3.6 Acknowledgement of the Contribution of the Government of Canada

Projects must commit to acknowledging the contribution of the Government of Canada through Genome Canada and the lead Genome Centre, as well as all other relevant funders, in research publications and all communications including press releases, posters and oral presentations. In addition, visual presentations such as seminars and websites must include the Genome Canada logo in compliance with Genome Canada's [Brand Standards Guide](#).

4. APPLICATION AND EVALUATION PROCEDURES

Eligible applicants must submit proposals at each application stage through a Genome Centre and it is the responsibility of the Centre to determine which projects to put forward.

Application requirements may vary from the general guidelines described below depending on the focus of the competition, complexity of the projects, and number of applications expected within a particular competition (see the RFA and application forms for the specific requirements of a particular competition).

The application process will be described in the RFA and may involve up to three stages – Registration, Pre-Application and Full Application – and the appropriate application forms are to be used without modification of formatting at each stage.

Page limits will be strictly enforced; pages beyond the limits and unsolicited appendices will be removed by Genome Canada staff before they are reviewed. If this occurs, due to the tight timelines for review, applicants will be notified, but they will not have the opportunity to revise their applications to meet the page limits.

It is the responsibility of the Genome Centre to evaluate the eligibility of each Registration, Pre-Application and Full Application before submitting it to Genome Canada. For the Pre-Application and Full Application stages, the final decisions with regard to eligibility will be made by Genome Canada. When applicable, for applications submitted to a targeted competition, relevance to the targeted area will also be evaluated. The Genome Centre must ensure that each proposal satisfies all the requirements of the competition as well as Genome Canada's evaluation criteria, as defined in the RFA of a particular competition.

In cases where applicants submit the same (or very similar) applications to more than one Genome Canada competition for which the review periods overlap, Genome Canada will automatically withdraw the second application from the competition.

4.1 Registration

A brief Registration form must be submitted through a Genome Centre and will be used to provide early guidance to Genome Canada on elements such as who is applying, what they are planning to do, research areas, expected deliverables, approximate budgets and suggested reviewers. This will allow for screening for eligibility by the Genome Centres; only applicants who submit a Registration that is deemed eligible will be allowed to submit a Pre-Application to Genome Canada. The Registration form will also facilitate the early selection of reviewers for the peer review process. Applicants will be invited to submit the names of potential reviewers who do not currently reside or work in Canada and with whom the applicants have no conflict of interest. Information from eligible Registrations (i.e., name of project leader(s), lead institution, title of the project, research areas and keywords) will be posted on the Genome Canada website to facilitate the identification of areas of potential synergy between applications from across the country so that applicants could consider engaging with other researchers on a common project. This will also make possible the exchange of required information between project teams and technology service providers such as Genome Canada's GIN Nodes, where applicable.

4.2 Pre-Application

For the Pre-Application, applicants will be asked to submit a short proposal through a Genome Centre, as detailed in the particular RFA. Normally, this proposal will include short descriptions of the following:

- the proposed research;
- the expected deliverables of the research;
- how the team will engage end-users in the project;
- the potential social and/or economic benefits of the research; and,
- high-level management and financial information (including a budget and proposed co-funding).

Pre-Applications must address the evaluation criteria established each competition.

Pre-Application Review Process

A group of experts with the appropriate expertise will evaluate the Pre-Application, normally focusing on the quality of the research plan and the potential for social and/or economic benefits. The review panel will make a recommendation of those projects considered to be competitive, and only the most competitive proposals will be invited to submit full applications. The applications will again be checked for eligibility and, if required, relevance to targeted areas. Information from approved Pre-Applications (i.e., name of project leader, lead institution, title of project, research areas and keywords) will be posted on the Genome Canada Website to further facilitate the exchange of required information between project teams and technology service providers such as Genome Canada's GIN Nodes (where applicable).

4.3 Full Application

Applicants that are successful at the Pre-Application stage will be asked to submit a Full Application. Full Applications must be submitted through one of the regional Genome Centres for review prior to submission to Genome Canada. Full Applications must address the evaluation criteria established for the competition and be presented on the appropriate Full Application and budget forms. A final check for eligibility will be carried out.

Full Application Review Process

To ensure that the objectives of Genome Canada are met, proposals are assessed against the evaluation criteria established for the competition and specified in the RFA. Normally these fall into three categories: 1) research proposal, 2) social and/or economic benefits, and, 3) management and finance. For Full Applications submitted to a targeted competition, relevance will also be considered.

For all competitions, a multidisciplinary, international committee of experts with expertise in assessing the different review criteria, is established to review applications. The committee will include members with expertise in the research areas of the applications as well as GE³LS and genomics technologies, as required. The individuals reviewing the social and/or economic benefits will include Canadians, as appropriate. The committee will evaluate all aspects the applications, taking into consideration the evaluation criteria presented in the RFA. Written reports may be solicited from external peer reviewers to assist the committee and to provide additional expertise. The review committee may meet with and interview representatives from each project through a face-to-face meeting, particularly for larger-scale projects.

In the event of Genome Canada receiving a large number of Full Applications, a streamlining process may be used to assist in reducing the number of applications prior to the review committee meeting. This process includes a full review of the research plan of each application. However, only applications deemed to be of the highest merit will remain in the review process and be considered at the review meeting.

The review committee offers recommendations and advice to Genome Canada on all aspects of applications, including proposed budgets. The Board of Directors makes the final funding decisions. Only those proposals demonstrating the highest degree of overall excellence in terms of the review criteria will be funded. Subsequently, investigators are provided with a written evaluation of the strengths and weaknesses of their application and the Board decision through a Notice of Award. All approved projects are subject to a Status Report Process to ensure that all applicable conditions are met prior to the release of funds.

Genome Canada may adjust its evaluation processes where warranted by the complexity of proposals received or other relevant factors. Any changes will be rapidly communicated through Genome Canada's website and through the Genome Centres.

5. PROJECT MANAGEMENT AND OVERSIGHT

5.1 Project Managers

Unless specified otherwise in the RFA of a particular competition, all approved projects must have a dedicated project manager. Project managers coordinate administrative and reporting requirements and support the project's scientific enterprise.

5.2 Research Oversight Committees

Unless specified otherwise in the RFA of a particular competition, all approved projects must have a Research Oversight Committee (ROC), which will be tasked with reporting to the Genome Centre on progress being made by the project. The ROC will make recommendations regarding continued funding and will provide advice and guidance to the research team to help ensure that the project achieves its milestones within the framework of the approved budget. The Lead Genome Centre is responsible for establishing and managing the project's ROC, taking into account recommendations from other Genome Centres that have a substantive financial investment in the project.

The membership of the ROC must be completely independent from the Project Team with no real or perceived conflicts of interest. The ROC should be composed of members with sufficient expertise to cover the breadth of the project including the research activities and potential deliverables and outcomes. It is expected that most projects will require a ROC of between 4-6 members, including the Chair; however, large complex projects may necessitate a larger ROC.

ROCs must adhere to the [ROC Terms of Reference](#) set out by Genome Canada.

6. INTERIM REVIEW

It is anticipated that with the introduction of Research Oversight Committees, Genome Canada will no longer routinely require an Interim Review of funded projects. Nevertheless, Genome Canada retains the right to organize an interim review of any project. The interim review would evaluate the progress of the research (meeting of milestones, key decision points, deliverables, etc.), including GE³LS, the implementation plan for the remainder of the project, the changes in research direction (made or proposed), the progress towards ensuring the deliverables and socioeconomic benefits are realized, and the financial and management aspects of the project. The review would take into consideration the timeframe during which the research has been ongoing and would be used to provide advice regarding alternative approaches to strengthen the project. Requests for additional funds are not considered at the time of the Interim Review. The results of the Interim Review would determine whether funding should be continued, reduced or terminated. The recommendations of the review committee would be submitted to the Genome Canada Board of Directors for a final decision.

7. FUNDING

The co-funding requirements for each competition will be specified in the RFA. Genome Canada will fund a portion of approved eligible costs for new research activities that are an integral part of the Genome Canada approved project. Genome Centres, working with the applicants, are responsible for securing the remaining funds from other sources.

7.1 Eligible Costs

Eligible costs are defined as reasonable costs for items that directly support the objectives of the Genome Canada approved project. Budgets must **NOT** include items for which funding has already been approved from other sources, unless the request for funding of these items was specifically made to support activities in the Genome Canada project and meets all other eligibility criteria. Expenses funded through Genome Canada must be incurred after the Notice of Award (NOA) to be considered as eligible costs. However, expenses covered by eligible co-funding incurred up to six months prior to the NOA may be considered eligible costs.

Specific RFAs will describe exceptions or additional guidelines with respect to eligible costs applicable to projects funded in a particular competition.

The main categories of eligible costs are: i) salaries and benefits, ii) consumables, iii) equipment, iv) general and administrative costs, and iv) services from others. Genome Canada funds may be used to cover eligible costs incurred by the project, with the exception of costs incurred outside of Canada or within organizations that are not eligible to receive Genome Canada funding, i.e., companies or federal government departments and agencies.

Eligible costs may include the following:

i. Salaries:

- Salaries and benefits for team members (note that salaries of researchers or senior management currently funded by their respective organizations, are **not** considered eligible costs).
- The actual benefit rates as charged by the host institution. Eligible benefits include: payroll taxes; group insurance; and group pension. For institutional benefit rates higher than 20% of the employee's salary, supporting documentation (such as a letter from the institutional human resources department that includes a breakdown of benefit rates) must be provided.
- The actual cost of release time from teaching and clinical duties, if supported by a letter from the host institution.
- Annual inflation for salary expenditures in the second and later years of the project at actual rates as charged by the host institution; for inflationary increases exceeding 1.5% of total salary and benefits, supporting documentation must be provided.

ii. Equipment:

- Equipment is defined as any item (or interrelated collection of items comprising a system) which is used wholly or in part for the research proposed and meets all three of the following conditions: 1) non-expendable tangible property; 2) having a useful life of more than one year; and, 3) a cost of \$2,000 or more.
- The equipment category also includes research infrastructure such as scientific collections and information databases used wholly or in part for the research proposed.

iii. Consumables:

- Material and supplies: includes items that meet at least one of the following conditions: 1) expendable tangible property; or, 2) useful life of 1 year or less; or, 3) a cost of less than \$2,000. As an example, a laptop computer that costs less than \$2,000 would be considered a consumable even though it is a non-expendable tangible item with a useful life of more than one year.
- For consumables commonly utilized in most laboratories, a general rate per FTE will be accepted, provided that the rate is appropriately justified in the supporting documentation.
- The consumables category also includes items such as equipment maintenance contracts and general maintenance of research infrastructure and travel that is directly related to the conduct of the project.

iv. General and Administrative Costs

- Administrative costs can include, for example, travel for project team members related to the management of the project (e.g., project team meetings) and project-related conferences, communications and public outreach activities, website maintenance, office expenses and costs associated with the preparation of reports.
- Administrative costs must not exceed five percent (5%) of the non-administrative costs of the budget.

v. Services From Others (S&T)

- The costs related to services provided by Genome Canada GIN Nodes or services from other fee-for-service providers.
- Expenses related to the development of the plan to realize social and/or economic benefits provided on a fee-for-service basis (e.g., patent registration and filing costs, costs associated with advancing the development of products and technology to the proof of concept stage).

Examples of **ineligible** costs include the following:

- i. payments to foreign persons, for example, salaries and benefits of project team members;
- ii. indirect costs to the project, including institutional overhead costs;
- iii. rent, renovation or construction of buildings or facilities, and the opportunity cost of using existing infrastructure;
- iv. costs associated with commercialization beyond the proof of concept stage, such as product development, formulation, packaging, testing, marketing and consultants; and,
- v. inflation applied to consumables, equipment, general & administrative costs or services from others.

7.2 Co-funding

The co-funding requirements for each competition will be specified in the RFA. However, Genome Canada normally requires that a portion of the requested funding for eligible costs for any given project be obtained through co-funding from other sources. At the time of application, a well-developed and feasible co-funding plan must be provided (i.e., a plan which demonstrates the extent to which the project is likely to secure at least 75% of the co-funding for eligible costs at time of the release of funds). In cases where co-funding is required, Genome Canada funds will not be released to a project until there is a firm commitment for at least 75% of the co-funding for eligible costs of the project and a well-developed and feasible plan for securing the remaining 25% of co-funding. Genome Canada reserves the right to withdraw its funding for any approved project that does not meet these requirements or if there is a substantial change in the project's co-funding status.

7.2.1 Sources of Co-funding

Eligible co-funding sources include:

- Companies
- Venture capital or other investment funds.
- An industry consortium
- Institutional funds, trust funds, or foundations
- Charities and philanthropic organizations
- Departments and agencies of the federal government (e.g., Natural Resources Canada, Agriculture and Agri-Food Canada, and Economic Development Agencies) and the Canada Foundation for Innovation
- Departments and agencies of provincial and municipal governments
- Voluntary organizations
- Individuals

Ineligible co-funding sources include:

- Canadian Institutes of Health Research (CIHR)
- Natural Sciences and Engineering Research Council (NSERC)
- Social Sciences and Humanities Research Council (SSHRC)
- Canada Research Chairs (CRC)
- Networks of Centres of Excellence (NCEs);

7.2.1 Co-funding Requirements

Co-funding must be for eligible costs that represent new or incremental activities that are an integral part of the Genome Canada approved project (see Eligible Costs, Section 7.1) in order to be considered as an eligible co-funding source.

In-kind contributions, defined as non-cash eligible budget items which can be given a cash value (such as salaries for company personnel working on the project) may be considered as co-funding if:

- the value can be reasonably determined and supported by documentation from the supplier; and

- the expenditure represents an item that would otherwise have to be acquired with cash. However, this excludes the cost of pre-existing facilities or equipment (i.e., budgets cannot include the opportunity cost of space or equipment).

The value of existing IP transferred to a project is NOT considered eligible co-funding unless it is a contribution by a supplier of IP (e.g., a software license that would otherwise have to be acquired from a third party supplier). Such items must be supported by appropriate documentation from the supplier's head office.

Suppliers' discounts are not considered eligible co-funding.

Funding to support the indirect costs of a project (including overhead) are not eligible.

7.2.2 Documentation Required to Support Co-funding

Full Applications must include complete documentation to support proposed co-funding. This may be in the form of a letter of commitment or an agreement defining the terms and conditions of the proposed co-funding. In addition, the project must provide a description of how the co-funding will directly support the objectives of the Genome Canada project. In general, co-funders must explicitly acknowledge the use of funds to co-fund Genome Canada projects.

The following provides specific examples of documentation required, depending upon the co-funding source, or type:

- From a provincial government:
 - confirmation that the government will provide co-funding;
 - the amount anticipated;
 - a list of the projects in the competition that the government will support, including the project tracking number, the name of the researcher, the title of the project, and the amount of the request from the government;
 - a description of the process that will take place once Genome Canada announces awards, including timelines for decisions and, if appropriate, confirmation that the government will accept Genome Canada's review process; and
 - a letter signed by a high-ranking provincial government official with appropriate authority.
- From a funding agency
 - A copy of the full application;
 - Project summary;
 - Detailed budget; and
 - Notice of Award (if applicable).

Documentation must clearly demonstrate that funding is being used for eligible costs included in the budget of the Genome Canada approved project.

- Organizations, including industry, charities, and philanthropic organizations:

- Documentation and supporting information which clearly demonstrates the organization's level and terms of commitment to the project. Appropriate documentation could include but is not limited to a Board Resolution, and/or, a letter from the organization's CEO, legal counsel or Corporate Secretary.
- Appropriate and reasonable documentation supporting the organization's financial viability and its ability to deliver on the co-funding. Depending on the organization and the level of funding being committed, documentation could include: A full set of the organization's most recent audited financial statements, including the Auditor's Report, a Balance Sheet, Income statement, Statement of Cash Flows and Notes to the Financial Statements.
- In the case where the audited statements are more than three months old, a full set of the organization's financial statements (prepared within three months prior to the application) including a Balance Sheet, Income Statement, Statement of Cash Flows and Notes to the Financial Statements; and,
- Any other information or documentation (e.g., press releases announcing significant new financing, cash flow projections, etc.) which provides credible support to the organization's financial viability and ability to fulfill its co-funding commitments.

In-kind Contributions:

- A clear rationale and calculation of how the value of the contribution was determined (including documentation to support all assumptions, price lists, quotes from suppliers, supporting letters, etc.) is required for in-kind contributions. All in-kind contributions must be auditable by outside experts and clear explanations are required if there are discrepancies between the value outlined in the co-funding document and the budget. Examples of supporting documentation to support non-cash co-funding include:
 - **Salaries**
 - Each in-kind salary line must be detailed by position in the budget template and represent the actual salary and benefits of the position in accordance with the applicable salary provisions of Eligible Costs listed in section 7.1.
 - **Consumables**
 - Documentation that indicates the actual cost to the user or co-funder to acquire the consumables or documentation that indicates the price that would be typically paid for the item(s) on the commercial market.
 - **Equipment and Software**
 - Letter from a senior official of the vendor that shows the price that the customer would typically have paid for the equipment or software (net of typical discounts including institutional discounts which are not eligible as co-funding)

- For custom-made or used equipment, a third party valuation will normally be required.
 - For previously developed custom-made software or IP, only new costs are eligible.
- **Samples and Other Biological Resources**
 - If samples are typically available at no cost then there is no cost of acquiring such samples and as a result no value can be deemed to be co-funding.
 - If samples are typically sold, then any proposed contribution would require the same documentation as equipment and software.

8. ADMINISTRATION

8.1 Project Readiness

Leader(s) of approved projects must meet, through formally submitted documentation, all relevant conditions that may be specified in the Notification of Award (NOA) received from Genome Canada and be in a position to receive Genome Canada funding no later than three months after the effective date of the NOA. ***Genome Canada reserves the right to withdraw funding for any approved project that is not ready to receive funding at that time.***

8.2 Conditions for Release of Genome Canada Funds

Before funds can be disbursed, several conditions for funding must be satisfied and are detailed below.

1. A letter signed by the CEO of the Genome Centre confirming to Genome Canada that: all agreements have been signed between the Genome Centre, Genome Canada (e.g., there is an existing signed agreement between Genome Canada and the Genome Centre), the lead organization, the researchers and the co-funding partners; all other conditions for release of funds have been met; and funds will flow to the project upon receipt of funds from Genome Canada. The agreements must clearly demonstrate agreement among the relevant parties, on all significant issues including, but not limited to, the nature of financial contributions, IP ownership and management, data release, the commercialization process, project management, ethics and biohazard certification, the role of the Research Oversight Committee, the funding term, a termination policy, financial and administrative policies, quarterly reporting of expenses and co-funding status. The agreements must be in compliance with the agreement between Genome Canada and the lead Genome Centre.
2. *A revised budget*, will be required in instances where there are budget implications arising from recommendations of the review panel, any reductions to the budget as approved by the Genome Canada Board, as well as where there are reductions in costs of services. Genome Canada will NOT accept revisions to the budget for any other reasons. Final budget approval will be

based on a review by Genome Canada. If the cost of services has gone down since the project was submitted for review, projects must provide an updated statement of work (SOW) which reflects the current cost of services or provide written confirmation from service providers that the cost of services remains unchanged.

3. *Revised Objectives and Milestones*, when required. Where significant budget adjustments were made as a result of removal or modification of specific activities, applicants must submit revised objectives, milestones and a Gantt chart.
4. Secured co-funding (received or firmly committed) amounting to a minimum of 75% of the co-funding for eligible costs and a well-developed and feasible plan for securing the remaining 25% of co-funding (if applicable).
5. Acknowledgement that appropriate certification for proposals performing research involving human subjects, human stem cells, animals, biohazards, radioactive materials or possible effects on the environment is in place. Certification must be obtained specifically for the research approved for funding by Genome Canada. In order to release funds to an organization, Genome Canada will accept a letter from the appropriate officials at the organization confirming that:
 - i. the organization will ensure that all relevant certifications are obtained in accordance with applicable laws, regulations, standards and guidelines, including but not limited to, the most current versions of the following: Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS); CIHR Guidelines for Human Pluripotent Stem Cell Research; Canadian Council of Animal Care (CCAC) guidelines and policies; Canadian Environmental Assessment Act; Public Health Agency of Canada's Laboratory Biosafety Guidelines; and Canadian Food Inspection Agency Containment Standards for Veterinary Facilities;
 - ii. the organization will not flow funds to an investigator until all relevant certifications are obtained for the research to be undertaken; and,
 - iii. the organization will provide Genome Canada with copies of certifications, upon request.
6. The project must have a [Data Release and Resource Sharing](#) plan approved by Genome Canada. The project must remain current with internationally accepted standards for data release and resource sharing.
7. A publication policy which includes a commitment to comply with Genome Canada's policy on [Access to Research Publications](#).
8. A commitment to acknowledge the contribution of the Government of Canada through Genome Canada and the lead Genome Centre, as well as all other relevant funders, in research publications, as well as all communications

including press releases, posters and oral presentations. In addition, visual presentations such as seminars and websites must include the Genome Canada logo in compliance with Genome Canada's [Brand Standards Guide](#).

9. Meet specific conditions or recommendations of the International Review Committee as detailed in the Notice of Award.
10. Meet other conditions established by Genome Canada.

8.3 Management of Funding

- i. The agreement between Genome Canada and the Genome Centre will reference financial commitments from other parties as well as other financial requirements.
- ii. As the needs and circumstances of each Centre, the researchers and partner organizations may differ, the contracts between these partners will be negotiated individually and need not be identical, but should apply the same general principles defined in the agreement between Genome Canada and the Genome Centres. Genome Canada's share of the funding for approved projects will flow from Genome Canada to the Centres. The Genome Centres will manage (e.g., disburse, monitor and report on) the funds for the project.
- iii. If co-funding is secured by way of a binding agreement, and funds can be shown to be available to meet the co-funder's obligations, Genome Canada's contributions can be adjusted to accommodate the timing of the expected receipt of funds from co-funding partners. However, where co-funding sources are not secured, Genome Canada's contribution will be based on its share of the approved quarterly budget up to the maximum amount approved by the Board.
- iv. Genome Canada provides funding up to the approved quarterly contribution, a quarter "in advance", subject to receipt of quarterly reports of expenditures (from both Genome Canada and co-funding sources), including actuals to the previous quarter, estimates for the current quarter, and forecasts for the quarter of the advance. Subsequent quarterly advances may be adjusted to account for any unused funding.
- v. The financial status of co-funding must be reported on a quarterly basis.

8.4 Accountability, Reporting and Performance Measurement

Funded projects must submit to their lead Genome Centre on a quarterly basis (or as required for a particular RFA), information and data as prescribed by the Centre in terms of timing, format and content, which will allow for the on-going assessment and monitoring of their performance. It is the responsibility of the lead research institution to ensure that the Project Leader(s) participate in this process. Funded projects must also agree to participate in and provide information for any evaluation-type activities that may be undertaken from time to time by Genome Canada or the Genome Centre, for up to five years subsequent to the end date of the project.

Genome Canada expects that all co-funding expenditures (domestic and international) be reported on a quarterly basis.

8.5 Management of Changes to Genome Canada-Funded Projects

Over the term of a Genome Canada-funded project, adjustments can be expected to the initially approved project, because of required changes to the scientific, managerial or financial conditions of funding initially approved by Genome Canada. In order to manage these adjustments, funded projects must follow the principles outlined in Genome Canada's "Guidelines for the Management of Changes to Genome Canada-Funded Projects".

8.6 Final Reports

Within three (3) months of the completion of the projects, each project will be required to submit to its Genome Centre a final report that includes a description of the accomplishments of the project relative to the approved objectives as well as a detailed financial report in a format determined by Genome Canada. A percentage of the final payment will be held back pending receipt and approval of the Final Report.