# Resources for Research Groups (RRG) Competition

**Template 2018 for Regular applications**

This proposal for Compute Canada resources will be reviewed for research quality and merit by a committee made up of your peers (ie. Canadian faculty members with expertise in the subject area). It will also be reviewed by Compute Canada technical staff to ensure that Compute Canada resources will be used appropriately and efficiently.

Please use the section headings below, leaving 2 cm (0.8 in) in all the margins and using Arial or Times New Roman fonts (12 pts). You may remove all explanations (text in *italics*) if desired. Please ensure that all pages are numbered. **This document must be submitted in pdf format *only*.**

This template is intended as a guide. Please remove any section or sub-section which does not apply to your application. For example, if you are not requesting a storage allocation, there is no need to include section 3.2. Suggested lengths for each section are included in the template, but these are only suggestions and your proposal may vary depending on the size and complexity of the request.

Please consult the [Compute Canada Technical Glossary](https://www.computecanada.ca/research-portal/accessing-resources/glossary/) if you have questions about terminology.

**Important note: Please ensure that ALL the resources requested in this document are properly reflected in the *Resources Request* section of the online application form on CCDB. Failing to do so may negatively impact the evaluation and final award of successful applications.**

**1. Introduction to the Research Problem and Research Justification**

*Outline the research problem for each project, its importance/relevance, as well as your general objectives. Include a discussion of the problem, methodology, timelines, and specific goals. Max 3 pages.*

**2. Training and Support of HQP**

*Describe how this allocation will support the training of Highly Qualified Personnel (HQP) that are reported on the online form. Typically up to 1 page.*

**3. Technical Justification**

*This section addresses the technical details of your computational and/or storage needs for each project to ensure that resources are used as efficiently as possible, that requests are reasonable, and that appropriate systems are being used. You can consult the resource lists* [*available resources*](https://www.computecanada.ca/research-portal/accessing-resources/available-resources/) *on the Compute Canada website.*

*Typically the entire section will be up to 2 pages long (in proportion to the size and complexity of your resource request). If you need help to complete this section, do not hesitate to contact us at* *rac@computecanada.ca* *(or contact your local Compute Canada/regional support person).*

**3.1 Compute Requests ( if applicable)**

**3.1.1 Code Details, Performance & Utilization**

*In the online form, you have been asked to list any software requirements associated with your application. If there is anything specific Compute Canada should consider regarding code performance when allocating resources for your project, (e.g. if there are particular system or processor architectures for which the code is best suited, or if it is known to scale efficiently to a certain number of cores) please provide additional information here - otherwise leave blank.*

*In the case of parallel codes, please justify the typical job sizes you will run (e.g. memory requirements, total walltime, etc.). If your parallel jobs use 256 cores or more, data around scaling efficiency is* ***required****.*

**3.1.3 Memory Requirements**

*In the online form, you have been asked to specify memory requirements either per-core or per-node. If there is any additional information you would like to provide regarding memory requirements, please provide additional information here - otherwise leave blank.*

**3.1.4 Compute Requirements (if applicable)**

 *In the online form, you have been asked to specify your compute requirements. In this document, please justify the stated computing needs and describe your level of confidence and experience with computing use. Explain how you estimated the total amount of compute time required for this project.*

*It is strongly recommended to include a list (or table) of projects and a justification for each. For example:*

|  |  |  |  |
| --- | --- | --- | --- |
| *Project* | *Team Members* | *Estimated Number of core years* | *Associated Storage (temporary)* |
| *Project 1* | *Student X* | *1,000* | *100TB* |
| *Project 2* | *Students Y, Z* | *250* | *25TB* |
| *Totals:* |  | *1,250* | *125TB* |

*(where Project 1 and Project 2 are explicitly identified and justified in the preceding text.) This allows reviewers to determine the consequences of any cuts they apply to your allocation and helps demonstrate the reasonableness of your request.*

**3.2 Storage Requests (complete only if required)**

 *In the online form, you have been asked to specify your storage requirements, for a variety of different storage types (e.g., /PROJECT, /NEARLINE). In this document, please justify the stated storage needs and describe your level of confidence and experience using each of these storage types. Explain how you estimated the total amount of storage required for this project.*

*It is strongly recommended to include a list (or table) of projects and a justification for each. For example:*

|  |  |  |  |
| --- | --- | --- | --- |
| *Project* | *Team Members* | */PROJECT* | */NEARLINE* |
| *Project 1* | *Student X* | *50TB* | *0* |
| *Project 2* | *Students Y, Z* | *0* | *20TB* |
| *Totals:* | *3 students* | *50TB* | *20TB* |

*( where Project 1 and Project 2 are explicitly identified and justified in the preceding text.) This allows reviewers to determine the consequences of any cuts they apply to your allocation and helps demonstrate the reasonableness of your request..*

**4. Progress Over Past Year**

*In the online form, you have been asked to provide an up-to-date CCV and to identify which of your publications were enabled by your use of Compute Canada resources. This is important for the future funding of Compute Canada and is useful for your review committee.*

*In this document, please highlight any notable RAC-enabled research that you have performed. This may link back to the CCV publication record, or may be a work in progress. Typically, this section would be a couple of paragraphs (e.g., ½ page). However, if you wish to include a more detailed description or to include figures, etc. please feel free to do so.*