



**The Digital Research Alliance of Canada (the Alliance) serves Canadian researchers, with the objective of advancing Canada's position as a leader in the knowledge economy on the international stage. By integrating, championing and funding the infrastructure and activities required for advanced research computing (ARC), research data management (RDM) and research software (RS), we provide the platform for the research community to access tools and services faster than ever before.**

**The Alliance is embarking on a process of co-creation with the broader Canadian research ecosystem to define its 2025-30 funding mandate. This survey is a critical part of that co-creation process: where researchers, developers and other stakeholders involved in the research process will have an opportunity to tell us how we can facilitate a robust research software community and service framework in Canada.**

**If you use, develop or support the use of research software, we encourage you to fill out this survey. We also encourage you to inform your colleagues about the survey. The more people we hear from, the better our strategy will be. Later in 2023, we will be sharing a draft of the research software strategy, giving you an additional opportunity to weigh in on what you feel should be the priorities for the Alliance and its stakeholders. It will take you between 20 and 30 minutes to complete this survey.**

## Key Terms

**The following terms are taken primarily from the Research Software Current State Report document, unless indicated otherwise.**

### Research Software

**Research software is defined from a broad perspective at an emerging and complex intersection of tools, disciplines, services, platforms, hardware, resources, and the people (users, researchers, developers, stakeholders, personnel, and communities, etc.) who use and contribute to them.**

### Research Software Tools

**Software tools, libraries, and scripts are components integrated at the development level that generally serve one function in the research process or infrastructure and can also be considered as foundational to more complex workflows, research**



## Section A: Equity, Diversity, and Inclusion

Why are we asking questions about your identity? In order to ensure that all researchers in Canada have equitable access to the Digital Research Infrastructure (DRI), the Alliance aims to understand the diversity of the researcher population of Canada - who is well serviced and who encounters barriers. These questions will help the Alliance to work towards ensuring that all researchers have access to the tools and services they need, regardless of who they are or where they are. Please note that these questions are not mandatory.

This survey is completely anonymous and will not collect any personally identifiable information.

### A1. Select the option that best describes your gender identity\*.

Refers to your current gender which may be different from sex assigned at birth and may be different from what is indicated on legal documents

Gender-fluid

Man

Non-binary

Two-Spirit

Woman

Prefer not to answer

### A2. Do you identify as transgender?

Yes

No

Prefer not to answer

**A3. What is your sexual orientation?**

- Asexual
- Bisexual
- Gay
- Straight (Heterosexual)
- Lesbian
- Pansexual
- Queer
- Questioning
- Two-Spirit
- Prefer not to answer
- Other

Other

**A4. Do you identify as Indigenous?**

- Yes
- No
- Prefer not to answer

**A5. Select the group you identify with:**

- First Nation
- Métis
- Inuit
- Prefer not to answer
- Other

Other

**A6. Do you identify as a member of a racialized group\* in Canada?**

*Racialized groups are persons, other than Indigenous peoples, who do not identify as Caucasian, European, and/or White in race, ethnicity, origin, and/or colour, regardless of birthplace or citizenship.*

Yes No Prefer not to answer **A7. How do you identify your race/ethnicity?**Black/African (including African-Canadian/American, Caribbean) East Asian (e.g., Chinese, Taiwanese, Japanese, Korean) Indo-Caribbean, Indo-African, Indo-Fijian, or West-Indian Latin, South, or Central American Pacific Islanders or Polynesian/Melanesian/Micronesian (e.g., Cook Island Māori, Hawaiian Mā'oli, Fijians, Marquesan, Marshallese, Niuean, Samoans, Tahitian Mā'ohi, Tongan, New Zealand Māori) South Asian (e.g., Bangladeshi, Pakistani, Indian, Sri Lankan, Punjabi) South East Asian (e.g., Cambodian, Filipino/a, Malaysian, Thai, Vietnamese) West Asian or North African (e.g., Afghani, Armenian, Egyptian, Iranian, Iraqi, Israeli, Jordanian, Lebanese, Palestinian, Syrian, Yemeni) Prefer not to answer Other 

Other

**A8. Did you immigrate to Canada?**Yes No Prefer not to answer **A9. For how many years have you lived in Canada?**

**A10. Do you identify as a person with a disability or as requiring accommodations in the workplace due to a functional limitation?\***

*A disability may be physical, mental health-related, psychiatric, developmental, sensory, learning-related, chronic illness/pain, addiction-related and/or life-threatening allergies or chemical sensitivities. It may have emerged at birth, as the result of accident/trauma, or it may be episodic. Disabilities may be permanent or temporary and may exist as a result of self-perception, perception of others, environmental barriers, inaccessible attitudes, or any combination of these factors, leading to experiences of unequal opportunity to accessing environments and services.*

Yes No Prefer not to answer **A11. Select all the type(s) of disability that applies to you.**Communications Developmental Dexterity Flexibility Hearing Learning Memory Mental Health-related Mobility Pain-related Seeing Prefer not to answer Other Other  
**Section B: Demographics****B1. What is your primary institutional affiliation?**Academy for Technical Education Academy of Canada College Academy of Classical Oriental Sciences



Acadia Divinity College	<input type="checkbox"/>
Acadia University	<input type="checkbox"/>
Adler University	<input type="checkbox"/>
Alberta Bible College	<input type="checkbox"/>
Alberta Career Computer Centre	<input type="checkbox"/>
Alberta College of Art & Design	<input type="checkbox"/>
Alexander College	<input type="checkbox"/>
Algoma University College	<input type="checkbox"/>
Algonquin Careers Academy	<input type="checkbox"/>
Algonquin College of Applied Arts and Technology	<input type="checkbox"/>
Anishnabek Education Institute	<input type="checkbox"/>
Arbutus College	<input type="checkbox"/>
Ascenda School of Management	<input type="checkbox"/>
Ashton College	<input type="checkbox"/>
Assiniboine Community College	<input type="checkbox"/>
Athabasca University	<input type="checkbox"/>
Atlantic Business College	<input type="checkbox"/>
Atlantic School of Theology	<input type="checkbox"/>
Aurora College	<input type="checkbox"/>
BC College of Optics	<input type="checkbox"/>
Bethany College	<input type="checkbox"/>
Bishop's University	<input type="checkbox"/>
Blue Quills First Nations College	<input type="checkbox"/>
Booth College	<input type="checkbox"/>
Boucher Institute of Naturopathic Medicine	<input type="checkbox"/>
Bow Valley College	<input type="checkbox"/>
Brandon University	<input type="checkbox"/>
Bredin College	<input type="checkbox"/>
Brescia University College	<input type="checkbox"/>



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|---|--------------------------|
| Briercrest Bible College                                | <input type="checkbox"/> |
| Brighton College  | <input type="checkbox"/> |
| Brighton College Vancouver                              | <input type="checkbox"/> |
| British Columbia Institute of Technology (BCIT)         | <input type="checkbox"/> |
| Brock University  | <input type="checkbox"/> |
| C/J Health Care Support College                         | <input type="checkbox"/> |
| Calgary College on Traditional Medicine and Acupuncture | <input type="checkbox"/> |
| Cambrian College of Applied Arts and Technology         | <input type="checkbox"/> |
| Cambridge College of Technology                         | <input type="checkbox"/> |
| Camosun College   | <input type="checkbox"/> |
| Camosun College - Interurban                            | <input type="checkbox"/> |
| Campus Notre-Dame-de-Foy                                | <input type="checkbox"/> |
| Canada Christian College                                | <input type="checkbox"/> |
| Canadian Business College                               | <input type="checkbox"/> |
| Canadian Career College                                 | <input type="checkbox"/> |
| Canadian College  | <input type="checkbox"/> |
| Canadian College of Massage and Hydrotherapy            | <input type="checkbox"/> |
| Canadian College of Naturopathic Medicine               | <input type="checkbox"/> |
| Canadian Health Care Academy                            | <input type="checkbox"/> |
| Canadian Institute of Business                          | <input type="checkbox"/> |
| Canadian Institute of Financial Planning                | <input type="checkbox"/> |
| Canadian Institute of Traditional Chinese Medicine      | <input type="checkbox"/> |
| Canadian Law Enforcement Training College               | <input type="checkbox"/> |
| Canadian Memorial Chiropractic College                  | <input type="checkbox"/> |
| Canadian Mennonite University                           | <input type="checkbox"/> |
| Canadian Mothercraft                                    | <input type="checkbox"/> |
| Canadian National Institute of Health                   | <input type="checkbox"/> |
| Canadian Tourism College                                | <input type="checkbox"/> |
| Canadian University College                             | <input type="checkbox"/> |



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|--|--------------------------|
| Canadore College of Applied Arts and Technology                              | <input type="checkbox"/> |
| CanScribe Career Center  | <input type="checkbox"/> |
| Cape Breton University   | <input type="checkbox"/> |
| Capilano University  | <input type="checkbox"/> |
| Carey Theological College  | <input type="checkbox"/> |
| Carleton University  | <input type="checkbox"/> |
| Carlton Trail Regional College   | <input type="checkbox"/> |
| Carpenters Millwright College  | <input type="checkbox"/> |
| CDI College of Business, Technology and Health Care                          | <input type="checkbox"/> |
| CDI College of Business, Technology and Healthcare                           | <input type="checkbox"/> |
| CÉGEP (Collège d'éduc générale & professionnelle) de l'Abitibi-Témiscamingue | <input type="checkbox"/> |
| CÉGEP André-Laurendeau - Ville La Salle                                      | <input type="checkbox"/> |
| CÉGEP Beauce Appalaches  | <input type="checkbox"/> |
| CÉGEP de Baie-Comeau   | <input type="checkbox"/> |
| CÉGEP de Chicoutimi  | <input type="checkbox"/> |
| CÉGEP de Drummondville   | <input type="checkbox"/> |
| CÉGEP de Granby - Haute - Yamaska  | <input type="checkbox"/> |
| CÉGEP de Jonquière   | <input type="checkbox"/> |
| CÉGEP de l'Abitibi-Témiscamingue   | <input type="checkbox"/> |
| CÉGEP de l'Outaouais   | <input type="checkbox"/> |
| CÉGEP de la Gaspésie et des Îles   | <input type="checkbox"/> |
| CÉGEP de la Pocatière  | <input type="checkbox"/> |
| CÉGEP de Lévis-Lauzon  | <input type="checkbox"/> |
| CÉGEP de Matane  | <input type="checkbox"/> |
| CÉGEP de Rimouski  | <input type="checkbox"/> |
| CÉGEP de Rivière du Loup   | <input type="checkbox"/> |
| CÉGEP de Saint-Félicien  | <input type="checkbox"/> |
| CÉGEP de Saint-Hyacinthe   | <input type="checkbox"/> |
| CÉGEP de Saint-Jean-sur-Richelieu  | <input type="checkbox"/> |



- CÉGEP de Saint-Jérôme
- CÉGEP de Saint-Laurent
- CÉGEP de Sainte-Foy
- CÉGEP de Sept-Iles
- CÉGEP de Sherbrooke
- CÉGEP de Sorel-Tracy
- CÉGEP de Thetford-Mines de la région de l'Amiante
- CÉGEP de Trois-Rivières
- CÉGEP de Victoriaville
- CÉGEP du Vieux-Montréal
- CÉGEP Édouard-Montpetit
- CÉGEP Gérald-Godin
- CÉGEP Limoilou
- CÉGEP Lionel-Groulx
- CÉGEP Marie-Victorin
- CÉGEP régional de Lanaudière
- Centennial College
- Centennial College of Applied Arts and Technology
- Center for Arts and Technology Atlantic Canada Inc
- Center of Arts and Technology Halifax
- Central College
- Centre d'études collégiales de Charlevoix
- Centre d'études collégiales de Chibougamau
- Centre for Arts and Technology
- Centre for Distance Education
- Centre matapédien d'études collégiales
- Certified General Accountants Association
- Certified General Accountants Association of New-Brunswick
- Certified Management Accountants of Alberta



Certified Management Accountants of Ontario

Certified Management Accountants Society of BC

Charles Sturt University

Clarke Business College

Coastal Pacific Aviation Limited

Collège André-Grasset

Collège April-Fortier

Collège Bart

Collège Boréal

Collège CDI

Collège communautaire du Nouveau-Brunswick (CCNB)

Collège d'Affaires Ellis

Collège d'Ahuntsic

Collège d'Alma

Collège de Bois-de-Boulogne

Collège de Maisonneuve

Collège de Rosemont

Collège de Rosemont (à distance)

Collège de Valleyfield

Collège François-Xavier-Garneau

Collège Jean-de-Brébeuf

Collège Laflèche

Collège Mérici

Collège Montmorency

Collège MultiHexa

Collège O'Sullivan de Montréal

Collège O'Sullivan de Québec

College of Interactive Arts

College of New Caledonia



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|---|--------------------------|
| College of St. Scholastica                                | <input type="checkbox"/> |
| College of the North Atlantic                             | <input type="checkbox"/> |
| College of the Rockies                                    | <input type="checkbox"/> |
| Collège Pré-universitaire Nouvelles Frontières            | <input type="checkbox"/> |
| Collège Radio Télévision Québec                           | <input type="checkbox"/> |
| Collège Régional Champlain                                | <input type="checkbox"/> |
| College Salette Inc                                       | <input type="checkbox"/> |
| Collège Shawinigan  | <input type="checkbox"/> |
| Collège Universitaire de Saint-Boniface                   | <input type="checkbox"/> |
| Columbia Academy of Radio, TV and Arts                    | <input type="checkbox"/> |
| Columbia Bible College                                    | <input type="checkbox"/> |
| Compu College School of Business                          | <input type="checkbox"/> |
| CompuTech Career College                                  | <input type="checkbox"/> |
| Concordia College of Canada                               | <input type="checkbox"/> |
| Concordia University                                      | <input type="checkbox"/> |
| Concordia University College of Alberta                   | <input type="checkbox"/> |
| Conestoga College   | <input type="checkbox"/> |
| Conestoga College of Applied Arts and Technology          | <input type="checkbox"/> |
| Confederation College                                     | <input type="checkbox"/> |
| Confederation College of Applied Arts and Technology      | <input type="checkbox"/> |
| Conservatoire de musique de Montréal                      | <input type="checkbox"/> |
| Conservatoire Lasalle                                     | <input type="checkbox"/> |
| Cornerstone International Community College of Canada     | <input type="checkbox"/> |
| Cornwall Career College                                   | <input type="checkbox"/> |
| Corona College  | <input type="checkbox"/> |
| Corpus Christi College                                    | <input type="checkbox"/> |
| Crandall University                                       | <input type="checkbox"/> |
| CTS (Computer Technology Systems) Canadian Career College | <input type="checkbox"/> |
| Cumberland Regional College                               | <input type="checkbox"/> |



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| Dalhousie University                                   | <input type="checkbox"/> |
| Dartmouth College                                      | <input type="checkbox"/> |
| Dawson College   | <input type="checkbox"/> |
| Delta College  | <input type="checkbox"/> |
| Devry Institute of Technology                          | <input type="checkbox"/> |
| Devry Institute of Technology - ON LINE ONLY           | <input type="checkbox"/> |
| Digital School Industrial Design Diploma               | <input type="checkbox"/> |
| Discovery Community College                            | <input type="checkbox"/> |
| Discovery Community College - Arrowsmith               | <input type="checkbox"/> |
| Discovery Community College - Courtney                 | <input type="checkbox"/> |
| Discovery Community College - Parksville               | <input type="checkbox"/> |
| Discovery Community College - Surrey                   | <input type="checkbox"/> |
| Dorset College   | <input type="checkbox"/> |
| Douglas College  | <input type="checkbox"/> |
| Drake Computer Training and Development                | <input type="checkbox"/> |
| Durham College of Applied Arts and Technology          | <input type="checkbox"/> |
| Eastern College  | <input type="checkbox"/> |
| Eastern College, St. John's                            | <input type="checkbox"/> |
| École de technologie supérieure                        | <input type="checkbox"/> |
| École des Hautes Études Commerciales (HEC) de Montréal | <input type="checkbox"/> |
| Ecole du barreau du Québec                             | <input type="checkbox"/> |
| École du Show Business                                 | <input type="checkbox"/> |
| École nationale d'administration publique              | <input type="checkbox"/> |
| École Nationale d'aérotechnique                        | <input type="checkbox"/> |
| École nationale de l'humour                            | <input type="checkbox"/> |
| École nationale de police                              | <input type="checkbox"/> |
| École nationale de théâtre du Canada                   | <input type="checkbox"/> |
| École Polytechnique                                    | <input type="checkbox"/> |
| Emily Carr Institute of Art and Design                 | <input type="checkbox"/> |



Emmanuel Bible College	<input type="checkbox"/>
En' Owkin Centre	<input type="checkbox"/>
Eston College	<input type="checkbox"/>
Eton College Canada	<input type="checkbox"/>
Eveline Charles Academy	<input type="checkbox"/>
Everest College	<input type="checkbox"/>
Excel Career College	<input type="checkbox"/>
Fairleigh Dickinson University	<input type="checkbox"/>
Faithway Baptist College	<input type="checkbox"/>
Fanshawe College of Applied Arts and Technology	<input type="checkbox"/>
First Nations Technical Institute	<input type="checkbox"/>
First Nations University of Canada	<input type="checkbox"/>
Fleming College	<input type="checkbox"/>
Focus College of Professionals Ltd.	<input type="checkbox"/>
Gabriel Dumont Institute of Native Studies and Applied Research	<input type="checkbox"/>
Gateway College	<input type="checkbox"/>
George Brown College of Applied Arts and Technology	<input type="checkbox"/>
Georgian College of Applied Arts and Technology	<input type="checkbox"/>
Gitxsan Wet'Suwet'en Education Society	<input type="checkbox"/>
Grand Health Academy	<input type="checkbox"/>
Grande Prairie Regional College	<input type="checkbox"/>
Grant MacEwan University	<input type="checkbox"/>
Granton Institute of Technology	<input type="checkbox"/>
Granville Business College	<input type="checkbox"/>
GRB College of Welding	<input type="checkbox"/>
Great Plains College	<input type="checkbox"/>
Halton Business Institute	<input type="checkbox"/>
Hamilton School of Careers	<input type="checkbox"/>
Harris Institute for the Arts	<input type="checkbox"/>



Heritage Baptist College	<input type="checkbox"/>
Heritage College	<input type="checkbox"/>
Herzing College	<input type="checkbox"/>
Herzing Institutes of Canada	<input type="checkbox"/>
HOLLAND COLLEGE	<input type="checkbox"/>
Horizon College and Seminary	<input type="checkbox"/>
Humber Institute of Technology	<input type="checkbox"/>
Huron University College	<input type="checkbox"/>
Imperial Hotel Management College	<input type="checkbox"/>
Insignia College of Health and Business	<input type="checkbox"/>
Institut Athêna	<input type="checkbox"/>
Institut de technologie agro-alimentaire	<input type="checkbox"/>
Institut de tourisme et d'hôtellerie	<input type="checkbox"/>
Institut Descartes, collège d'Informatique	<input type="checkbox"/>
Institut Teccart	<input type="checkbox"/>
Institut Technologique Maritime	<input type="checkbox"/>
Institute for Human Services Education	<input type="checkbox"/>
Institute of Chartered Accountants of Ontario	<input type="checkbox"/>
Institute of Computer Studies (ICS)	<input type="checkbox"/>
Institute of Technology Development Canada	<input type="checkbox"/>
Institution Kiuna	<input type="checkbox"/>
Inter-Dec College	<input type="checkbox"/>
International Academy of Massage	<input type="checkbox"/>
International College of Traditional Chinese Medicine	<input type="checkbox"/>
John Abbott College	<input type="checkbox"/>
Justice Institute of British Columbia	<input type="checkbox"/>
Kawartha Lakes Bible College	<input type="checkbox"/>
Kelowna College of Professional Counselling	<input type="checkbox"/>
Kemptville College	<input type="checkbox"/>





Kenjgewin Teg Educational Institute	<input type="checkbox"/>
Keyano College	<input type="checkbox"/>
Keyin College	<input type="checkbox"/>
King's College	<input type="checkbox"/>
Kingswood University	<input type="checkbox"/>
Klondike Business & Entrepreneurship School	<input type="checkbox"/>
Kutenai Art Therapy Centre	<input type="checkbox"/>
Kwantlen Polytechnic University	<input type="checkbox"/>
L'école technique et professionnelle	<input type="checkbox"/>
La Cité Collégiale, arts appli & tech	<input type="checkbox"/>
Lakehead University	<input type="checkbox"/>
Lakeland College	<input type="checkbox"/>
Lambton College of Applied Arts and Technology	<input type="checkbox"/>
Langara College	<input type="checkbox"/>
LaSalle College	<input type="checkbox"/>
LaSalle College International	<input type="checkbox"/>
Laurentian University	<input type="checkbox"/>
Le Cordon Bleu Paris	<input type="checkbox"/>
Lester B. Pearson College of the Pacific	<input type="checkbox"/>
Lethbridge Community College	<input type="checkbox"/>
Liaison College	<input type="checkbox"/>
Lincien College of Business and Technology	<input type="checkbox"/>
Loyalist College of Applied Arts and Technology	<input type="checkbox"/>
Lutheran Theological Seminary	<input type="checkbox"/>
M.C. College	<input type="checkbox"/>
Mactech Distance Education College	<input type="checkbox"/>
Marca College - Saskatoon Campus	<input type="checkbox"/>
Marianopolis College	<input type="checkbox"/>
Maritime College of Forest Technology	<input type="checkbox"/>



Marvel Beauty Schools	<input type="checkbox"/>
Maskwacis Cultural College	<input type="checkbox"/>
Master's College and Seminary	<input type="checkbox"/>
Max the Mutt Animation School	<input type="checkbox"/>
Maxwell College	<input type="checkbox"/>
McGill University	<input type="checkbox"/>
McKay Career Training	<input type="checkbox"/>
McKenzie College	<input type="checkbox"/>
McMaster University	<input type="checkbox"/>
Medicine Hat College	<input type="checkbox"/>
Memorial University of Newfoundland	<input type="checkbox"/>
Memorial University of Nfld.	<input type="checkbox"/>
Memorial University, Marine Institute, Lewisporte	<input type="checkbox"/>
Memorial University, Marine Institute, Stephenville	<input type="checkbox"/>
Meritus University	<input type="checkbox"/>
Metalworks Institute	<input type="checkbox"/>
Metropolitan Community College	<input type="checkbox"/>
Michener Institute for Applied Health Sciences	<input type="checkbox"/>
Mohawk College of Applied Arts and Technology	<input type="checkbox"/>
Montessori Training Center of British Columbia	<input type="checkbox"/>
Montréal Technical College	<input type="checkbox"/>
Mount Allison University	<input type="checkbox"/>
Mount Royal University College	<input type="checkbox"/>
Mount Saint Vincent University	<input type="checkbox"/>
MTI Community College	<input type="checkbox"/>
MTI Community College	<input type="checkbox"/>
National Indian Forestry Institute (with SIIT)	<input type="checkbox"/>
National Institute of Broadcasting	<input type="checkbox"/>
National School of Dental Therapy (part of FNUC)	<input type="checkbox"/>



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|--|--------------------------|
| Native Education and Training College                  | <input type="checkbox"/> |
| Native Education College                               | <input type="checkbox"/> |
| Nazarene University College/Ambrose University College | <input type="checkbox"/> |
| New Brunswick Community College (NBCC)                 | <input type="checkbox"/> |
| New Image College of Fine Arts                         | <input type="checkbox"/> |
| Newman Theological College                             | <input type="checkbox"/> |
| Niagara College Canada                                 | <input type="checkbox"/> |
| Niagara College, Niagara on the Lake                   | <input type="checkbox"/> |
| Niagara Parks Commission                               | <input type="checkbox"/> |
| Niagara School of Health Care                          | <input type="checkbox"/> |
| Nicola Valley Institute of Technology                  | <input type="checkbox"/> |
| Nimbus School of Recording Arts                        | <input type="checkbox"/> |
| Nipawin Bible Institute                                | <input type="checkbox"/> |
| Nipissing University                                   | <input type="checkbox"/> |
| NorQuest College                                       | <input type="checkbox"/> |
| North Island College                                   | <input type="checkbox"/> |
| North West Regional College                            | <input type="checkbox"/> |
| Northeast Christian College                            | <input type="checkbox"/> |
| Northern Alberta Institute of Technology (NAIT)        | <input type="checkbox"/> |
| Northern College of Applied Arts and Technology        | <input type="checkbox"/> |
| Northern Lakes College                                 | <input type="checkbox"/> |
| Northern Lights College                                | <input type="checkbox"/> |
| Northern Ontario School of Medicine - Sudbury          | <input type="checkbox"/> |
| Northern Ontario School of Medicine                    | <input type="checkbox"/> |
| Northern Professional Access College                   | <input type="checkbox"/> |
| Northlands College                                     | <input type="checkbox"/> |
| Northumberland College                                 | <input type="checkbox"/> |
| Northwest Community College                            | <input type="checkbox"/> |
| Northwest Culinary Academy of Vancouver                | <input type="checkbox"/> |



Nova Scotia Agricultural College	<input type="checkbox"/>
Nova Scotia College of Art and Design	<input type="checkbox"/>
Nova Scotia Community Colleges	<input type="checkbox"/>
Nova Scotia Nautical Institute	<input type="checkbox"/>
Nunavut Arctic College	<input type="checkbox"/>
Nunavut Sivuniksavut	<input type="checkbox"/>
Nuxalk College	<input type="checkbox"/>
Okanagan College	<input type="checkbox"/>
Okanagan Valley College of Massage Therapy	<input type="checkbox"/>
Old Sun Community College	<input type="checkbox"/>
Olds College	<input type="checkbox"/>
Ontario Business College	<input type="checkbox"/>
Ontario College of Art & Design	<input type="checkbox"/>
Ontario College of Teachers	<input type="checkbox"/>
Ontario Dental Education Institute	<input type="checkbox"/>
Ontario Institute for Studies in Education	<input type="checkbox"/>
Ontario Native Education Counselling Association	<input type="checkbox"/>
Ontario Police College	<input type="checkbox"/>
Ontario School of Masonry	<input type="checkbox"/>
Ontario School of Radiation Therapy, Ontario Cancer Inst.	<input type="checkbox"/>
Oshio College of Acupuncture and Herbology	<input type="checkbox"/>
Oshki-Pimache-O-Win Education and Training Institute	<input type="checkbox"/>
Ottawa School of Art	<input type="checkbox"/>
Oulton's College of Business	<input type="checkbox"/>
Pacific Horticulture College	<input type="checkbox"/>
Pacific Life Bible College	<input type="checkbox"/>
Pacific Rim College	<input type="checkbox"/>
Pacific Rim Early Childhood Institute Inc.	<input type="checkbox"/>
Parkland Regional College	<input type="checkbox"/>



PCU College of Hollistic Medicine

Polarcom Institute of Technology

Port Arthur Collegiate

Portage College

Professional Institute of Massage

Providence College and Seminary

Queen Elizabeth School of Radiography

Queen's Theological College

Queen's University

Quest University

Randolph School of the Arts

Ravensberg College

RCC Institute of Technology (Radio College of Canada)

Red Crow Community College

Red Deer College

Red River College

Redeemer University College

Reeves Business & Career College

Regency College

Regent College

Regis College

Reliance College of Business

Rhodes Wellness College Ltd.

Richards Beauty College & Esthetics

Ridge Meadows College

Ridgetown College

Rocky Mountain College

Royal Conservatory of Music

Royal Military College of Canada



Royal Roads University	<input type="checkbox"/>
Ryerson University (Polytechnical Institute)	<input type="checkbox"/>
Saint Mark's College	<input type="checkbox"/>
Saint Mary's University	<input type="checkbox"/>
Saint Paul University	<input type="checkbox"/>
Saskatchewan Indian Institute of Technologies	<input type="checkbox"/>
Saskatchewan Institute of Applied Science & Tech	<input type="checkbox"/>
Saskatoon Business College	<input type="checkbox"/>
Sault College of Applied Arts and Technology	<input type="checkbox"/>
Scotia Career Academy Ltd.	<input type="checkbox"/>
Seabird College	<input type="checkbox"/>
Selkirk College	<input type="checkbox"/>
Séminaire de Sherbrooke	<input type="checkbox"/>
Seneca College of Applied Arts and Technology	<input type="checkbox"/>
Seneca College of Applied Arts and Technology, Jane Campus	<input type="checkbox"/>
Seven Generations Education Institute	<input type="checkbox"/>
Sheridan College Institute of Technology and Advanced Learning	<input type="checkbox"/>
Simon Fraser University	<input type="checkbox"/>
Sir Sandford Fleming College of Applied of Arts and Technology	<input type="checkbox"/>
Six Nations Polytechnic	<input type="checkbox"/>
Sky Wings Aviation Academy Limited	<input type="checkbox"/>
Southeast Regional College	<input type="checkbox"/>
Southern Alberta Institute of Technology	<input type="checkbox"/>
Sprott-Shaw College of Business - Vancouver Campus	<input type="checkbox"/>
Sprott-Shaw Community College	<input type="checkbox"/>
Sprott-Shaw Community College - Penticton	<input type="checkbox"/>
Sprott-Shaw Community College - Victoria	<input type="checkbox"/>
St. Clair College of Applied Arts and Technology	<input type="checkbox"/>
St. Clare's Mercy Hospital School of Nursing	<input type="checkbox"/>



- St. Francis Xavier University
- St. Jerome's University
- St. Lawrence College
- St. Lawrence College - Champlain Regional College
- St. Mary's University
- St. Michael's University
- St. Stephen's College
- St. Stephen's University
- St. Thomas More College
- St. Thomas University
- Steinbach Bible College
- Stenberg College
- Stratford Career Institute
- Success College of Applied Arts & Technology
- Summit Pacific College
- SUNTEP Saskatchewan Urban Native Teacher Education Program
- Surrey Community College
- Sutherland Chan School & Teaching Clinic
- Taylor University College and Seminary
- Technical University of Nova Scotia
- Télé-université
- Thames Valley College of Business and IT
- The Academy of Fashion Design
- The Art Institute of Toronto
- The Art Institute of Vancouver
- The Gaming and Animation Institute of Fredericton
- The Institute of Holistic Nutrition
- The Kings University College
- The Toronto Film School



- Thompson Career College Inc.
- Thompson River University (University College of the Cariboo)
- Thompson Rivers University (University College of the Cariboo)
- Toronto Business College
- Toronto College of Dental Hygiene
- Toronto School of Arts
- Toronto School of Business
- Trent University
- Trillium College
- Trinity College
- Trinity Western University
- TriOS College
- Tyndale College & Seminary
- Union of New Brunswick Indians Training Institute (UNBI)
- Universal Career College
- Universal Learning Institute
- Université de Hearst
- Université de l'institut national de recherches scientifiques (INRS) - Québec
- Université de Moncton
- Université de Montréal
- Université de Sherbrooke
- Université du Québec à Chicoutimi
- Université du Québec à Montréal
- Université du Québec à Rimouski
- Université du Québec à Trois-Rivières
- Université du Québec en Abitibi-Témiscamingue
- Université du Québec en Outaouais
- Université Laval
- Université Sainte-Anne



- |   |                          |
|---|--------------------------|
| University Canada West - On-Line                    | <input type="checkbox"/> |
| University College of the North                     | <input type="checkbox"/> |
| University of Alberta                               | <input type="checkbox"/> |
| University of British Columbia                      | <input type="checkbox"/> |
| University of Calgary                               | <input type="checkbox"/> |
| University of Canada West - Vancouver               | <input type="checkbox"/> |
| University of Guelph                                | <input type="checkbox"/> |
| University of King's College                        | <input type="checkbox"/> |
| University of Lethbridge                            | <input type="checkbox"/> |
| University of Manitoba                              | <input type="checkbox"/> |
| University of New Brunswick                         | <input type="checkbox"/> |
| University of Northern British Columbia             | <input type="checkbox"/> |
| University of Ontario Institute of Technology       | <input type="checkbox"/> |
| University of Ottawa                                | <input type="checkbox"/> |
| University of Phoenix                               | <input type="checkbox"/> |
| University of Prince Edward Island                  | <input type="checkbox"/> |
| University of Regina                                | <input type="checkbox"/> |
| University of Saskatchewan                          | <input type="checkbox"/> |
| University of the Fraser Valley                     | <input type="checkbox"/> |
| University of the Fraser Valley - Chilliwack Campus | <input type="checkbox"/> |
| University of Toronto                               | <input type="checkbox"/> |
| University of Victoria                              | <input type="checkbox"/> |
| University of Waterloo                              | <input type="checkbox"/> |
| University of Western Ontario                       | <input type="checkbox"/> |
| University of Windsor                               | <input type="checkbox"/> |
| University of Winnipeg                              | <input type="checkbox"/> |
| Vancouver Academy of Dramatic Arts                  | <input type="checkbox"/> |
| Vancouver Beijing College of Chinese Medicine       | <input type="checkbox"/> |
| Vancouver Career College                            | <input type="checkbox"/> |



- |  |                          |
|--|--------------------------|
| Vancouver College of Art and Design                  | <input type="checkbox"/> |
| Vancouver College of Counsellor Training             | <input type="checkbox"/> |
| Vancouver College of Dental Hygiene                  | <input type="checkbox"/> |
| Vancouver Community College                          | <input type="checkbox"/> |
| Vancouver Institute of Media Arts                    | <input type="checkbox"/> |
| Vancouver Island School of Art                       | <input type="checkbox"/> |
| Vancouver Island University                          | <input type="checkbox"/> |
| Vancouver Premier College                            | <input type="checkbox"/> |
| Vancouver School of Theology                         | <input type="checkbox"/> |
| Vanier College                                       | <input type="checkbox"/> |
| Victoria College of Art                              | <input type="checkbox"/> |
| Victory Bible College                                | <input type="checkbox"/> |
| Western College                                      | <input type="checkbox"/> |
| Western College of Remedial Massage                  | <input type="checkbox"/> |
| Western Memorial Regional Hospital School of Nursing | <input type="checkbox"/> |
| Westervelt College                                   | <input type="checkbox"/> |
| Wilfrid Laurier University                           | <input type="checkbox"/> |
| Willis College                                       | <input type="checkbox"/> |
| Wilp Wilxo'oskwhi Nisga'a Institute                  | <input type="checkbox"/> |
| Winnipeg Education Centre                            | <input type="checkbox"/> |
| Winnipeg Technical College                           | <input type="checkbox"/> |
| Wycliffe College                                     | <input type="checkbox"/> |
| Yellowhead College                                   | <input type="checkbox"/> |
| Yellowhead Tribal College                            | <input type="checkbox"/> |
| Yellowquill College                                  | <input type="checkbox"/> |
| York University                                      | <input type="checkbox"/> |
| Yorkville University                                 | <input type="checkbox"/> |
| Yukon University                                     | <input type="checkbox"/> |



Other

Other

**B2. Please choose your primary research domain based on the Canadian Research and Development Classification (CRDC) 2020.**

- |                                      |                          |
|--------------------------------------|--------------------------|
| Natural sciences                     | <input type="checkbox"/> |
| Engineering and technology           | <input type="checkbox"/> |
| Medical, health and life sciences    | <input type="checkbox"/> |
| Agricultural and veterinary sciences | <input type="checkbox"/> |
| Social sciences                      | <input type="checkbox"/> |
| Humanities and the arts              | <input type="checkbox"/> |





**B5. Please choose the option that best describes your current employment status.**

Full-time permanent position

Part-time position

Fixed-term contract

Other

Other

**B6. Please provide the number of years since your first appointment into this position.**

**B7. Are you eligible to apply for and receive Tri-Council, CFI, or other research funding?**

*This does not include Fellowships, Stipends or Awards (e.g., CGSM, CGSD, PGSD, Vanier)*

Yes

No

Not sure

**B8. How is your group's research software budget funded?**

CIHR

NSERC

SSHRC

CFI

CANARIE

Genome Canada

Alliance

Provincial funding

Institutional

Industry grants

International funding

It is not funded **B9. Have you previously worked outside academia?**Private sector/industry Public sector/government Non-for-profit sector Consultant **Section C: General questions****C1. Does the definition of research software meet your understanding of research software, and if not, how would you describe research software?**

*Research software is defined from a broad perspective as an emerging and complex intersection of tools, disciplines, services, platforms, hardware, resources, and the people (users, researchers, developers, stakeholders, personnel, and communities, etc.) who use and contribute to them.*

Yes No Not sure **C2. Do you consider the use of research software critical to your research?**Yes No Not sure

**C3. Do you consider the development of research software a primary output of your research?**Yes No **C4. Do you have access to software development support\*?**

*Support is related to different software development activities including but not limited to designing, developing, deploying, testing, integrating, documenting, supporting and maintaining a piece of software.*

Yes No Not sure **C5. Who provides this support?**My institution The Alliance A disciplinary community Paid consultants or professional services **C6. How important is (or would be) such a service to your research?**Very important Somewhat important Neutral Not important It doesn't matter **C7. Are there research software training needs you would like to see offered, either for the use of research software or the development of research software?**



**C8. How could the Alliance, a national level digital research infrastructure provider, best help you with your research software needs, either as a developer or a user?**

**C9. Is there a type of funding that would help meet your needs, either as a developer or a user?**

**C10. Are there specific gaps in the research software landscape that you feel should be addressed to facilitate your research?**

**C11. Are there particular software platforms or software services you currently use which you feel would be valuable to be offered as a national service for all researchers to access?**

Yes

No

**C12. Would you be interested in sharing success stories with the Alliance? If yes, please provide your contact information and the URL of the software platform.**

Yes

No



C13. **Are there particular software tools, platforms or software services you currently develop or co-develop which you feel would be valuable to be offered as a national service for all researchers to access?**

Yes

No

C14. **Please list the names and provide URLs.**

C15. **Please provide us with any other feedback you feel would be useful in how the Alliance supports research software in the future.**

## Section D: Research Software Development

D1. **Do you yourself lead, or have you previously led, a research software development project?**

Yes      Uncertain      No  
Currently leading  .....  .....

Previously Led  .....  .....



**D2.** Have you or your team received funding from a funding call that is specific to the development of research software (e.g. CANARIE Research Software, CFI Cyberinfrastructure Challenge I, Chan Zuckerberg Open Source Software)?

Yes

No

Not sure

**D3.** From which funding agencies?

**D4.** How many years of research software development experience do you have?

**D5.** What roles do you as an individual play on your software development team?

Design

Development

Documentation

Outreach

Funding

Quality Assurance

Researcher/End-User

Other

Other

**D6.** Who develops the software in your group?

Faculty - Professor (including assistant/associate/full professor, clinical professor, teaching professor)

Faculty - Adjunct, emeritus, visiting, or limited-term

Administrator

Researcher Post-Doctoral Fellow Research Software Engineer / Expert Research Software Developer Research Associate Research Staff Librarian Student (Doctoral) Student (Masters) Student (Undergrad) Other 

Other

**D7. Can you provide an estimate of the time you and your research team spend developing research software?**

Less than 1/4 of an FTE	Between 1/4 and 1/2 of an FTE	Between 1/2 and 1 FTE	Between 1 and 2 FTEs	More than 2 FTEs
-------------------------------	-------------------------------------	-----------------------------	----------------------------	---------------------

The time you spend developing research software:  .....  .....  .....  ..... The time your research team spend developing research software:  .....  .....  .....  .....



D8. Approximately how many dollars (CDN) of research funds did your research group spend over the last calendar year on developing research software resources?

- \$0 (None)
- \$1 to less than \$1000
- \$1000 to less than \$5000
- \$5000 to less than \$50K
- \$50K to less than \$100K
- \$100K to less than \$250K
- More than \$250K
- Don't know
- Other

Other

D9. What are the primary programming languages you use to write your research software?

- Python
- R
- C
- C#
- C++
- FORTRAN
- GO
- JAVA
- JavaScript
- Julia
- Mathematica
- MATLAB
- Perl



PHP

Ruby

Scala

SQL

XQuery / XSLT

NOSQL (e.g. Cypher, SPARQL)

Swift

Other

Other

**D10. What type of research software do you develop? [refer to research software types from research software current state report]**

Libraries that are used by other research software tools (e.g. Numpy)

Tools that are run by researchers (e.g. OpenFoam)

Services that are used/queried by researchers (e.g. MongoDB)

Platforms that are used by end users (e.g. FRDR)

Open-source (e.g. GNU/Linux)

Closed-source (e.g. MATLAB)

Hybrid/dual- or multi-licensing (e.g. MySQL AB database)

Source code (e.g. Python code)

Binary executable, package (e.g. .exe file)

Container (e.g. Docker container)

Virtual machine image (e.g. VMware Workstation)

Service (e.g. Slack)

General (e.g. Numpy)

Domain-specific (e.g. Astropy)

Quantitative (e.g. R)

Qualitative (e.g. NVivo)

Planning (e.g. Microsoft Planner) Analysis (e.g. SAS) Computation (e.g. Mathematica) Visualisation (e.g. MindManager, ParaView) Transfer (e.g. FTP) Storage (e.g. Dropbox) Publishing (e.g. Zenodo) Curation/preservation of data (e.g. Zenodo) Curation/preservation of software (e.g. Software Heritage, Zenodo) Discovery (e.g. DataONE) 

Other

Other

**D11. List the names of the research software platforms and tools your research team has created, and are actively maintained.***Please provide URLs if available.***D12. Do you have research software platforms and/or tools your research team has created but are no longer maintained?***Please provide the reasons if your research software is no longer maintained.*Yes No Not sure



**D13. Do you create/provide documentation for all of your software outputs?**

- Always   
Often   
Sometimes   
Rarely   
Never

**D14. Are you / your lab / collaborators the only users of your research software, or do you have external users?**

*Please specify how it is used in the comment section,*

Mainly internal

Mainly external

Comment

Comment

**D15. Are you / your team involved in the co-development of, or contribution to a research software platform?**

*If yes, please list the names of the research software platforms and tools your research team is participating in.*

Yes

No

**D16. Which of the following most influence your practices for managing and sharing your research software?**

Institutional policies

Funder policies Publisher policies Research association/society policies Research community/collaborators' expectation Other 

Other

**D17. Choose the 3 methods you most often use to share your research software.**By direct request Hosted by a journal publisher (as supplementary material to a peer-reviewed article) Personal/research group website General software repository/registry (e.g., Zenodo, Figshare) Domain specific software repository/registry (e.g., Astrophysics Source Code Library) Open software repository (e.g., GitHub, Bitbucket) As components of science gateways, research platforms, virtual research environments (VRE) by external users **D18. Is there a research publication that describes your research software?***If yes, please provide your DOI for your publication.*Yes No **D19. Are you aware of the FAIR4RS Principles, and / or other related principles and best practices for research software development?**Yes No



**D20. Have you published a release for your research software (using FAIR4RS principles) that can be cited (e.g. with a DOI)?**

Always	<input type="checkbox"/>
Very often	<input type="checkbox"/>
Sometimes	<input type="checkbox"/>
Rarely	<input type="checkbox"/>
Never	<input type="checkbox"/>

**D21. Are you able to measure the impact/use of your research software using other methods (e.g., number of users, number of downloads)?**

Yes	<input type="checkbox"/>
No	<input type="checkbox"/>

**D22. How often do you write software where more than one developer is contributing to that software?**



Always	<input type="checkbox"/>
Very often	<input type="checkbox"/>
Sometimes	<input type="checkbox"/>
Rarely	<input type="checkbox"/>
Never	<input type="checkbox"/>

**D23. Do you use version control tools (e.g., Git/GitHub) for software development?**

Yes	<input type="checkbox"/>
No	<input type="checkbox"/>
Don't know	<input type="checkbox"/>



107  
108

**D24. Do you leverage / use standards in your research software development (e.g., GA4GH, TEI, etc.)?**

Yes

No

As a result, the number of people who have been infected with the virus has increased rapidly, leading to a significant increase in the number of deaths. The World Health Organization (WHO) has declared the situation a global emergency, and many countries have imposed travel restrictions and other measures to try to contain the spread of the virus.

**D25. Do you implement software security best practices in your development efforts?**

Yes

No

As a result, the number of people who have been infected with the virus has increased rapidly, leading to a significant increase in the number of deaths. The World Health Organization (WHO) has declared the situation a global emergency, and many countries have imposed travel restrictions and other measures to try to contain the spread of the virus.

**D26. How would you describe your personal level of skills in programming/coding?**

Expert (recognized authority)

## Advanced (applied theory)

## Intermediate (practical application)

Novice (limited experience)

## Fundamental Awareness (basic knowledge)

**D27.** How much project time do you spend programming/coding on average per project (% of total project time)?

**D28. Are there factors preventing you from developing research software?**

Yes   
No

**D29. What are these factors?**

Lack of funding

Comment

Lack of expertise on my team

Comment

Lack of time

Comment

**D30. When you consider your own software, what do you see as the biggest barrier(s) to sustainability?**

- Programming language
- Software dependencies
- Reproducibility
- Versioning / ongoing maintenance
- Community adoption
- Computing power required
- Restricted licences or data sources
- Repository support
- Funding

**D31. Are there any other barriers not described above?**



## **Section E: Research Software Use**

**E1.** Choose the 3 most common means which you have found other people's research software you use in your research.

- |   |  |
|---|--|
|   | Directly from authors/collaborators  |
|   | Community experts / discipline adoption                                    |
| From scholarly publications (e.g., software publication, supplementary materials)                         |  |
|   | Courses, workshops, training opportunities                                 |
|   | Conferences  |
|   | Research software author's website   |
|   | Local/regional support personnel   |
|   | Software hosting/development website (e.g., GitHub)                        |
|   | Software curation/preservation repository (e.g., Figshare, Zenodo)         |
|   | Domain specific software registry (e.g., Astrophysics Source Code Library) |
| Science gateways / research platforms / virtual research environments (VREs), or web application/services |  |
|   | Other  |

## Other

**E2.** Can you estimate the amount of time (% of your project time) you spend looking for the right research software for your research?



### **E3. On which platform(s) do you use research software?**

- |   |                          |
|---|--------------------------|
| Personal Desktop/laptop computer  | <input type="checkbox"/> |
| Lab computers   | <input type="checkbox"/> |
| Remote ARC resources (Former Compute Canada Federation/Alliance, Provincial, Institutional)   | <input type="checkbox"/> |
| Remote Cloud resources (Former Compute Canada Federation/Alliance, Provincial, Institutional) | <input type="checkbox"/> |
| International ARC resources (Access-US, EuroHPC-EU)   | <input type="checkbox"/> |
| International Cloud resources (EOSC-EU)   | <input type="checkbox"/> |
| Commercial Cloud resources (AWS, Azure, Google Cloud etc.)                                    | <input type="checkbox"/> |

Mobile device Other 

Other

**E4. How do you run software and/or access the resources mentioned in the previous question to perform your research?**Run desktop research software on personal computer or laptop Run desktop research software on lab computers Run research software from the command line via a remote SSH/terminal connection Run research software from the command line via a remote connection to a Graphical desktop (virtual desktop, remote desktop, etc.) Run research software using a Graphical User Interface via a remote connection to a Graphical desktop (virtual desktop, remote desktop, etc.) Use research software through web based science gateways, research platforms, virtual research environments (VRE) Other 

Other

**E5. Do you use the research software installed and maintained on Canadian ARC resources (e.g., the software installed on ARC platforms such as Cedar, Graham, Niagara, etc.)?**Yes No Don't know



**E6. Do you use research management services (e.g., CCDB, DMP Assistant) provided/supported by the Alliance?**

Yes

No

Don't know

**E7. Do you use one of the research software platforms (e.g., FRDR, Canadian Writing Research Collaboratory (CWRC), VirusSeq) funded/supported/maintained by the Alliance?**

Yes

No

Don't know

**E8. What type of software/tools do you most often use within your research project workflows?**

Cloud collaboration platforms (e.g., OSF)

Commercial data software (e.g., ESRI, NVIVO, Tableau)

Commercial storage provider (e.g., Google Drive, Dropbox)

Continuous integration platforms (e.g., Travis-CI, Circle-CI, GitHub Actions)

Electronic lab notebooks (e.g., LabArchives)

MS Office or equivalent

Open source data software (e.g., NumPy, Cesium ML, OpenRefine)

Project management tools (e.g., EMDESK, Asana)

Secure data capture software (e.g., REDCap)

Version control software (e.g., Git, Subversion)



None

Other

Other

**E9. Who on your team supports the research software you typically use?**

Me

A student (undergraduate/graduate)

A postdoctoral fellow

A sysadmin on my team

A sysadmin from my institution

A sysadmin from the Alliance

Regional Compute Organization (e.g. Compute Ontario, Calcul Québec)

Other

Other

**E10. Can you provide an estimate of the time you and your research team spend installing and supporting the research software that you use?**

The time you  
spend installing  
and supporting  
the RS that you  
use:

The time your  
research team  
spend installing  
and supporting the  
RS that you use:

Less than  $\frac{1}{4}$  of a full time equivalent position (an FTE)

Between  $\frac{1}{4}$  and  $\frac{1}{2}$  of an FTE

Between  $\frac{1}{2}$  and 1 FTE

Between 1 and 2 FTEs

More than 2 FTEs

**E11. How does your group fund the research software that you use?**

Federal government/agency

Provincial funding

Institutionally



- Research grants
- Industry grants or funding
- Personal funding

**E12. Approximately how many dollars (CDN) were spent personally over the last calendar year on research software, or software used in research (e.g. Adobe Suite, Excel, Dropbox)?**

- \$0 (None)
- \$1 to less than \$1000
- \$1000 to less than \$5000
- More than \$5000
- Don't know

**E13. Approximately how many dollars (CDN) of research funds did your research group spend over the last calendar year on purchasing (licensing), installing, or managing research software resources?**

- \$0 (None)
- \$1 to less than \$1000
- \$1000 to less than \$5000
- \$5000 to less than \$50K
- \$50K to less than \$100K
- \$100K or more
- Don't know

**E14. What factors do you consider in choosing which research software to use?**

- Ease of use
- Cost
- Scalability
- Performance
- Vendor Agnostic features
- Open source
- Sustainability (will be around for a long time)
- Reputation / Citations
- Documentation
- Support
- Securely handle data
- State-of-the-art / leading edge
- Interoperability
- Other

Other

**E15. Do you list and/or cite the research software you use in your research outputs?**

- Yes
- No

**E16. How do you cite or reference other people's research software?**

- Cite or reference the research software directly

- Cite or reference publication(s) describing the research software

- Other

Other



**E17. Do you participate in the ongoing development and/or support of the research software?**

Yes

No

**E18. Are you sometimes prevented from re-using research software because you lack the resources to install, use, or support it?**

Yes

No

**E19. Other than funding, or lack of support resources, are there other factors preventing you from using research software?**

**E20. Do your research software needs include storing or processing controlled or sensitive data (i.e. data owned by First Nations, Métis, or Inuit communities, personal data, data subject to ethics protocols, a data sharing agreement or specific security requirements)?**

Data collected by or about Indigenous communities  
Data containing personal information about individuals  
Data requiring a high level of security for other reasons

Yes

No

Don't know

**E21. Are there specific things you would like to suggest that the Alliance can provide to help you leverage research software in your research?**



## Section F: Development of Research Software Capacity

### F1. Have you ever received training\* in using research software and/or developing research software?

*In this context self-teaching is also considered as training.*

Yes

No

### F2. Who provided\* this training?

*Provided in this context implies who was responsible for the training or coordinated the event. It does not refer to the person who teaches the content.*

Self-taught

Student-led training/peer training

Extra-curricular courses

Degree in a related domain

Local/regional service (e.g., through libraries or IT, or training/workshops offered at local or regional services)

Online resources (e.g., Software Carpentry, StackOverflow)

Other

Other

### F3. What are the technical or non-technical programming/coding skills, if any, you would like to acquire or improve in relation to research software?

### F4. Would you or your team take advantage of courses in the use and development of research software?

*Please write any specific topics you would like to see covered.*

Yes

No



**F5. Are you a member of professional research software development groups such as the Research Software Engineering Association?**

Yes

No

**F6. Would you be interested in joining a research software community, organisation or program if one was formed in Canada (e.g., CAN-RSe—Canadian Research Software Expert)?**

Yes

No

Maybe

**F7. What would you hope to get out of such an organisation?**

Software development collaboration

Research collaboration

Networking

Job opportunities

Software best practices

Software development support (help developing software for your project)

Training and education



Other

Other

**F8. Are there other communities of practice you participate in that have an element of, or focus on, research software development?**

## Section G: Research Software Sustainability

**G1. What are the most important technical challenges you face when using other people's research software?**

- |  |                          |
|--|--------------------------|
| Difficulty in finding appropriate software | <input type="checkbox"/> |
| Difficulty in installing software          | <input type="checkbox"/> |
| Difficulty in maintaining software         | <input type="checkbox"/> |
| Issues with cross-platform compatibility   | <input type="checkbox"/> |
| Lack of documentation                      | <input type="checkbox"/> |
| Lack of training                           | <input type="checkbox"/> |
| Other                                      | <input type="checkbox"/> |

**G2. What are the most important non-technical challenges you face when using other people's research software?**

- |   |                          |
|---|--------------------------|
| Not available in my preferred language  | <input type="checkbox"/> |
| Lacks some specific functionality that I would like to have   | <input type="checkbox"/> |
| The maintainers do not provide a supportive environment   | <input type="checkbox"/> |
| Concerned about committing time to software that may not be maintained and available in the future (lack of research reproducibility) | <input type="checkbox"/> |
| Lack of proper documentation  | <input type="checkbox"/> |
| Other   | <input type="checkbox"/> |



**G3. Give your knowledge of the software sustainability topics below  
(provide examples where possible):**

Software curation/preservation (making sure the software has been packaged for long-term use/access)

<input type="checkbox"/>											
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Maintenance

<input type="checkbox"/>											
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Sustainability

<input type="checkbox"/>											
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

**G4. Whose responsibility do you think software sustainability should be?**

The Principal Investigator

The lead developer

The PI's institution

The community that uses the research software

The Software Heritage Library

The Alliance

Other

**G5. What do you feel is the most important outcome from research software sustainability?**

Facilitating Reproducibility

Facilitating Reusability

Building Community

Supporting Open Science principles

Other

**G6. Have you benefited from access to preserved research software (e.g., software that is no longer actively developed or maintained, but is still accessible)?**

Yes

No

Don't know



**G7. Was it easy given the state of the software?**

**G8. Have you abandoned use of some software because it was not well curated?**

**G9. Do you think that preserving research software is valuable?**

Yes

No

**G10. Have you used any of the following software curation/preservation services?**

Software Heritage Archive

Institutional Software Repositories

Generalist Software Repositories (e.g., Zenodo, Figshare)

Software Development Repositories (e.g., GitHub, BitBucket, etc.)

Software Container Repositories (e.g., DockerHub)

Other



Other



**G11. Have you received curation support when publishing your software in a repository?**

*Please describe who and how they have supported you.*

Institutional support							
e/community support							
o, Software Heritage)							
Other							

**G12.** What types of services would be useful as you prepare to publish or preserve software?

- |   |                          |
|---|--------------------------|
| Consultation with a curator at the point of deposit                             | <input type="checkbox"/> |
| Consultation about sustainability earlier in the software development lifecycle | <input type="checkbox"/> |
| Help creating documentation   | <input type="checkbox"/> |
| Someone to run compatibility tests  | <input type="checkbox"/> |
| Peer/code review by other developers  | <input type="checkbox"/> |
| Other   | <input type="checkbox"/> |

## Other

### G13. Would you take advantage of training for software sustainability?

- Yes   
No   
I know

**G14. In which areas of software sustainability would you find training the most useful?**

As a result, the number of people who have been infected with the virus has increased rapidly, and the disease has spread to many countries around the world. The World Health Organization (WHO) has declared the COVID-19 pandemic a global emergency, and governments and health organizations are working together to contain the spread of the virus and protect public health.



**G15. Does your community or academic discipline discuss or recommend approaches to software sustainability?**

*Please provide links to resources on the web if applicable.*

**Thank you for taking the time to complete this survey. Your answers will allow us to better serve the Canadian research community.**

**If you have any questions or you would like to directly engage with us please contact us at [research-recherche@alliancecan.ca](mailto:research-recherche@alliancecan.ca).**