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Research Software Program Newsletter | November 2016

Research Software Funding Call Announced

Research Software Call 2a was announced on November 1, 2016. This \$2M call invests in research software teams to adapt their existing research platforms to support researchers with new research applications. Interested parties must first submit a brief Notice of Intent by November 30, 2016. For details, visit www.canarie.ca/software/funding.

New Projects added to the Research Software Registry: OpenPNM and Slicer

We are pleased to announce two new community-contributed platforms in the Research Software Registry at science.canarie.ca!

[OpenPNM](#) provides materials science researchers with a ready-made framework for performing a wide range of pore network modelling (PNM) research, which is the study of the flow of fluids through porous materials. Learn more about this in our latest [blog post](#).

[Slicer](#) is a software platform for the analysis, visualization, and volume rendering of medical images for research in image-guided therapy.

Have some software you'd like to contribute to Canada's Research Software [Registry](#)? Send us an email at software@canarie.ca and let's discuss!

New Research Software Registry Feature: Citations

We have recently added a new "How to Cite" feature to the *Details* page of the [Research Software Registry](#). This allows contributors to add text detailing how they would like their software to be cited in publications written by others.

How to Cite: ⓘ

How to cite this software when it is referenced in a publication e.g. a paper, or presentation



More guidance and information about the benefits of citing software directly can be found at [“How to cite and describe software”](#) on the Software Sustainability Institute’s (SSI) [website](#).

Investment Fuels New Software Tools for Scientific Research



Figure 1. From Left to Right. Adrian Round (Director, Observatory Operations, ONC), Mark Wolff (CTO, CANARIE), Dr. Rachel Scarth (AVP Research, University of Victoria), MP John Aldag (Representing Minister Kirsty Duncan)

CANARIE recently announced an investment of \$2.3M in five Canadian research software projects across Canada. CANARIE was joined by representatives from the federal government, the University of Victoria and Ocean Networks Canada to announce and celebrate this investment in critical software tools. Find out more about the successful software projects here: <https://www.canarie.ca/canarie-announces-investment-in-new-software-tools-for-scientific-research/>

"Initiatives like the Research Software Program are bolstering Canada's capacity for science and innovation by providing the big data research tools that today's scientific research often requires. I'm pleased the Government of Canada can partner with CANARIE to give researchers the tools they need." - Minister of Science, Kirsty Duncan

First Conference of Research Software Engineers

The CANARIE Research Software team, along with community member Frédéric Osterrath from CRIM in Montreal, recently had the pleasure of attending the first Conference of Research Software Engineers. This conference, which was held in Manchester in mid-September, was a great mix of hands-on workshops and presentations on topics relevant to those who develop software for scientific research. We encourage research software developers in our community to consider attending this conference in the future. For details, please visit <http://www.rse.ac.uk/>.

STAC Update

CANARIE relies on volunteers from the community to provide advice on the direction and shape of our programs. The Software Technical Advisory Committee (STAC) provides such guidance on the technical direction of the Research Software program. We are happy to welcome new member Rosemary Le Faive (University of Prince Edward Island) and returning member Brian Corrie (New Zealand eScience Infrastructure) to this group.

Interested in joining the STAC? If you're an experienced research software developer or research software development manager working in Canada, we'd be interested in speaking with you. Please email software@canarie.ca for details.



Blog: Three Tips to Help your Team Build the Best Software for Scientific Research

Given their emphasis on profitability, commercial programming environments continuously focus on processes that increase efficiency. Three tips that can be brought over from the commercial environment to enhance the academic programming environment: <https://www.canarie.ca/3-tips-to-help-your-team-build-the-best-software-for-scientific-research/>



Canadian Light Source Synchrotron, University of Saskatchewan (shensicle photographic)

Over the past three months, the CANARIE Research Software team traveled to several Canadian universities to explore the needs of their researchers. We discussed the Research Software call, platform re-use, and the concept of having dedicated developer teams to support research software. We are happy to report that our findings from these discussions will continue to help us evolve the Research Software Program to best serve the needs of the Canadian research community.

We extend our thanks to the universities that hosted our team for visits during this initiative.

If you are interested in a presentation for your organization, please contact us:
software@canarie.ca