P20: Is Canada able to meet its needs for research and innovation on northern issues, given that it does not have graduate programs situated in the three Canadian territories?



for Northern Studies (ACUNS) Association universitaire canadienne d'études nordiques (AUCEN)





Yukon College



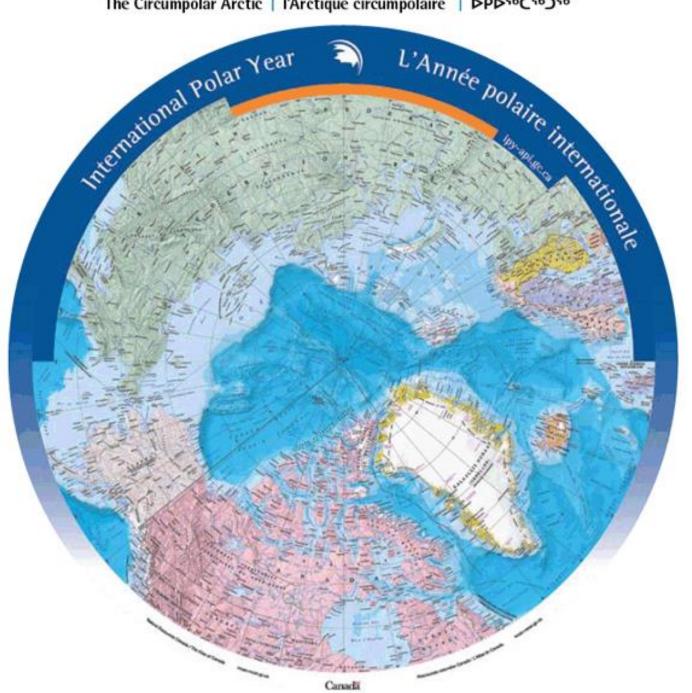












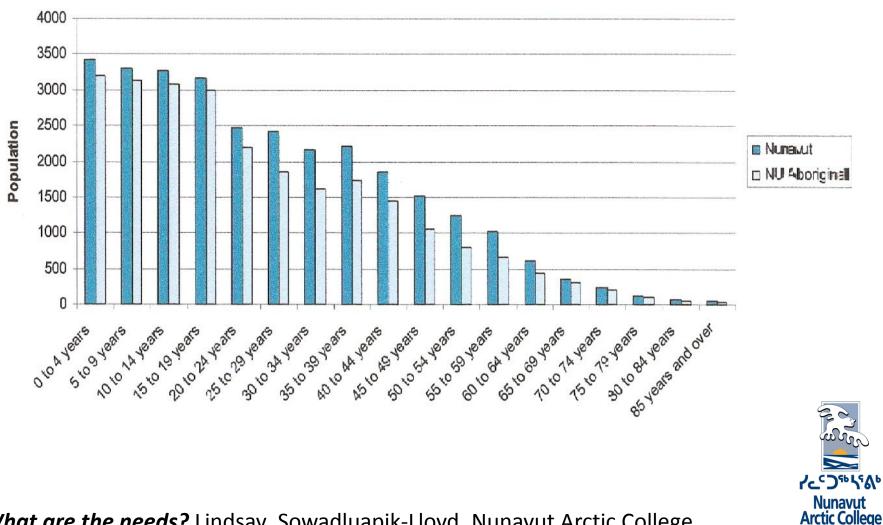
The Circumpolar Arctic | l'Arctique circumpolaire | PP>SbCSbCSb

Speaker	Торіс	Time
Lindsay Sowadluapik-Lloyd	What are the needs?	20 min
Nunavut Arctic College		
Andrew Applejohn		
Government of Northwest Territories		
Jean-Sebastian Blais		
Government of Yukon		
Jennifer Provencher		
Association of Polar Early Career Scientists		
Chris Hawkins	How are needs being met?	15 min
Yukon Research Centre		
Kevin Turner		
Association of Canadian Universities for Northern Studies		
Martin Fortier		
ArcticNet		
Audience Q&A	Audience Q&A	45 min

What are the needs?

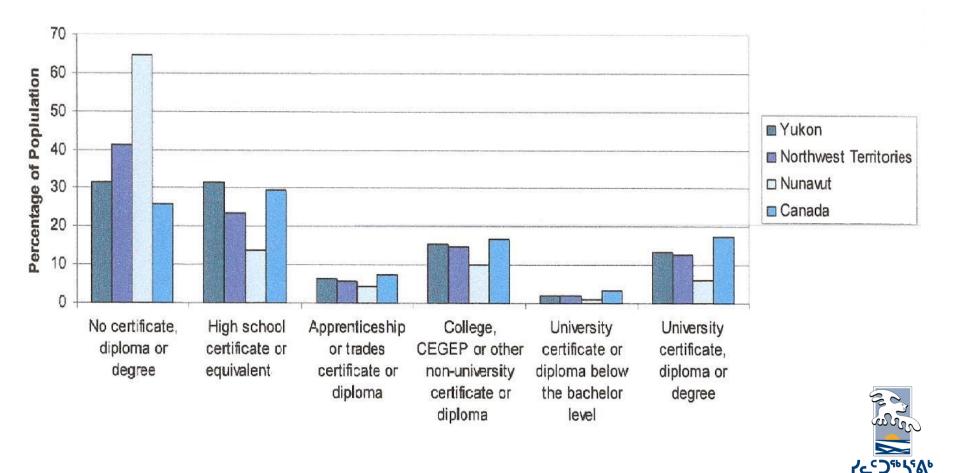
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Nunavummiut Age Distribution



What are the needs? Lindsay Sowadluapik-Lloyd, Nunavut Arctic College

Nunavummiut Education Attainment



Nunavut Arctic College

What are the needs? Lindsay Sowadluapik-Lloyd, Nunavut Arctic College

NWT: The need for science

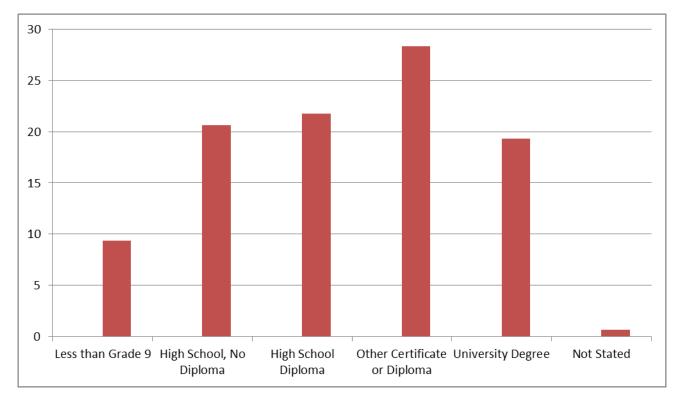
GNWT Science Agenda:

- "The Government of the Northwest Territories will be an active leader, practitioner, partner and promoter of scientific research, regulation and integration throughout the territory to inform relevant, timely and effective policy, planning and legislation for its constituents"
- Requirement for sound reliable evidence based information for decision making
- Requirement for scientific information to address major environmental, social and political change
- Commitment to providing science based information in binding agreements and strategies made at territorial, national, and international levels and GNWT has legislation which requires science based information to implement
- Establishes roles for GNWT in relation to science
- Establishes goals for GNWT



What are the needs? Andrew Applejohn, Government of Nunavut

NWT Highest Level of Education





Source: 2009 Community Survey Prepared by: NWT Bureau of Statistics

What are the needs? Andrew Applejohn, Government of Nunavut

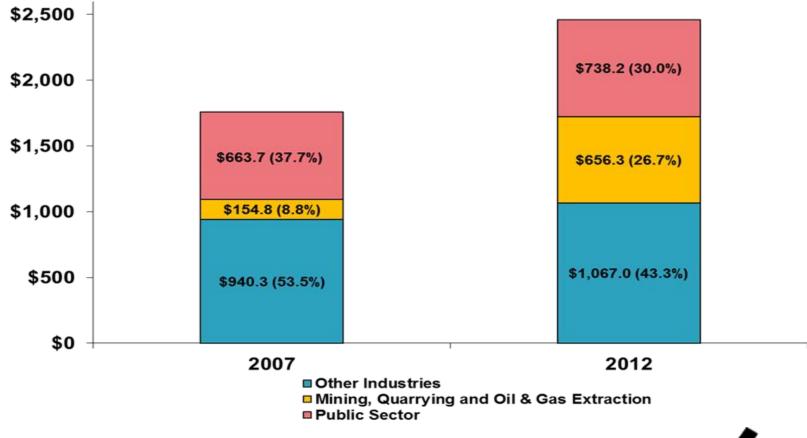
Drivers of NWT Science HR Needs

- Devolution of responsibilities from Canada to GNWT
 - Environment and Natural Resources
 - ➤Lands
 - Industry Tourism and Investment
 - Municipal and Community Affairs
- Industrial development
- Climate Change



What are the needs? Andrew Applejohn, Government of Nunavut

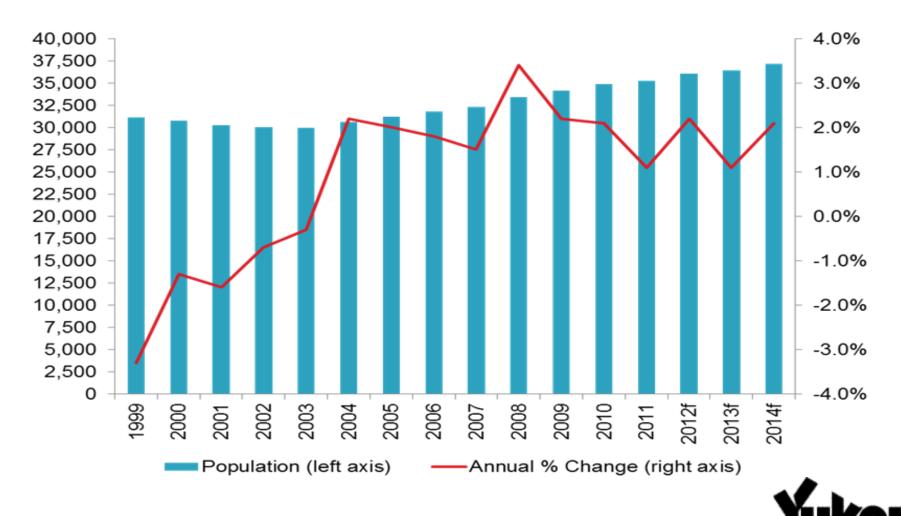
Yukon: A need for skills



What are the needs? Jean-Sebastien-Blais, Government of Yukon



Yukon's Changing Population



Advanced Education

What are the needs? Jean-Sebastien-Blais, Government of Yukon

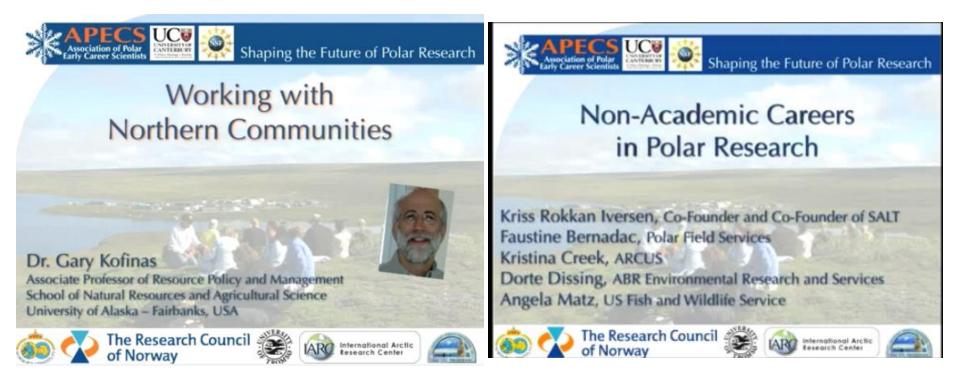
Yukon's Labour Market Strategy





What are the needs? Jean-Sebastien-Blais, Government of Yukon

Disconnect between needs and what is being taught



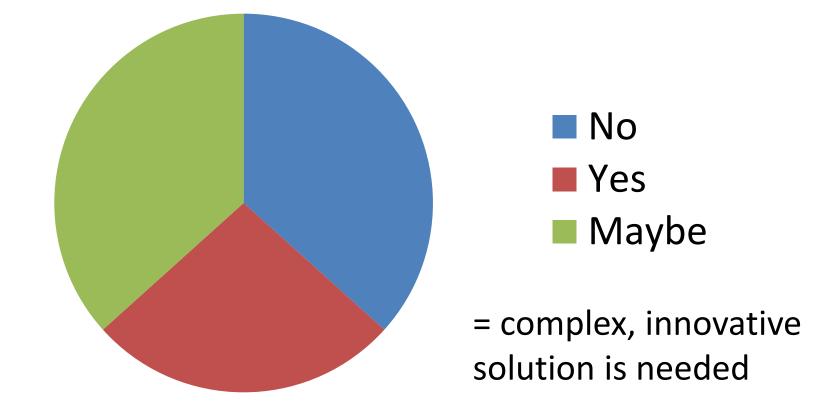
Hundreds of views since being viewed live and posted.

What are the needs? Jennifer Provencher, APECS



Question posed to APECS Canada members:

Do you feel that establishing graduate programs based in the north is important to meeting Canada's research and innovation needs?



What are the needs? Jennifer Provencher, APECS



Is graduate programs what we need in the north?

Grise Fiord, Nunavut, celebrates single graduate

Share

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Grise Fiord, Nunavut's northernmost community, held a ceremony Tuesday night for its high school graduating class of one.

Grise Fiord has a population of about 150, and Umimmak School has between 28 and 32 students from kindergarten to Grade 12.

Jessie Ningiuk is the community's sole graduate this year.

"It's just the way it worked out," said Cara Cormier, the school's

What are the needs? Jennifer Provencher, APECS

Tweet <0

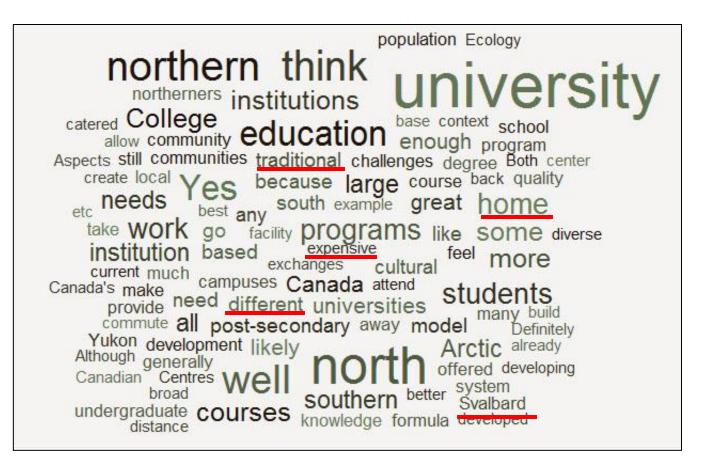
Share 1





Question posed to APECS Canada members:

Do you feel that the existing university institution formula would work well in a northern context in Canada??



What are the needs? Jennifer Provencher, APECS



How are the needs being met?

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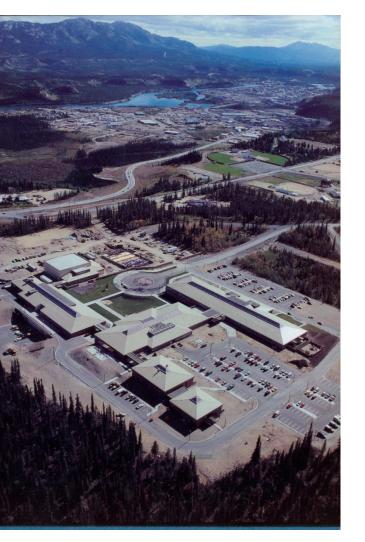
Evolution of Yukon College

1963 Yukon Vocational School 1983 Yukon College Act





Evolution of Yukon College



1988 move to Ayamdigut Campus2009 Yukon College Act Revised2011 territorial election



Yukon College and HQP

1991 Northern Research Institute 2010 Yukon Research Centre





Yukon College and HQP

2013 Post graduate climate change program Université du Québec en Abitibi-Témiscamingue (UQAT)







The Association of Canadian Universities for Northern Studies (ACUNS)

- Established in 1978 as a registered charitable organization
- Comprises a Board of Directors and volunteer representatives from over 40 member institutions across the country
 - Program Manager based in Ottawa
 - Council of representatives distribute information from the Association and meet annually to oversee developments
 - An elected Executive and Board of Directors are responsible for the activities of the Association between general meetings.

Vision

To engage Canadians in research and education in Canada's north.

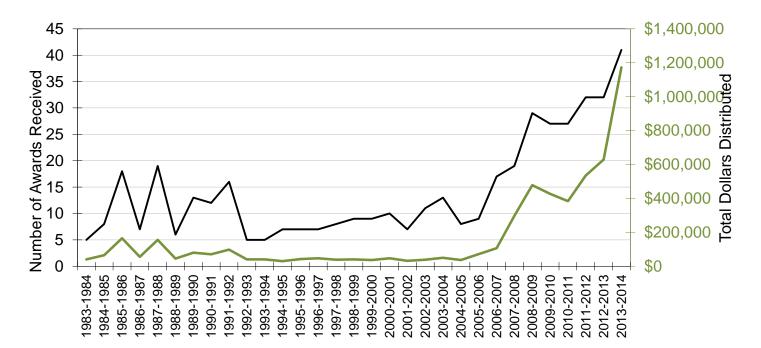
Mission

To advance and promote northern research and education, notably through scholarships, conferences and collaboration.





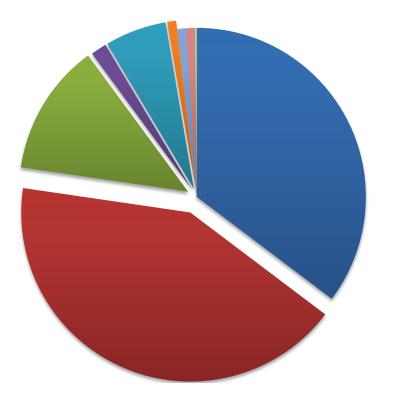
Total Annual Funding Granted Since 1983







2013-14 Funding Breakdown (total = \$1.19 million)



- W. G. Weston Award Post Doc
- W. G. Weston Award PhD
- W. G. Weston Award MSc
- W. G. Weston Extended Stays Pilot
- Northern Resident Scholarships
- Northern Resident Awards
- CNST Scholarship
- CPC Scholarship





<u>Results from a survey of past recipients of graduate student</u> <u>W. Garfield Weston Northern Research Awards</u>

Status	Number	Percent
Degree Complete	26	68%
# of years to complete	Average = 3.6, Max = 5.5	
Degree not complete	12	32%
Employed	27	71%
Employment related to research	25	96%
Still active in research community	36	97%
Still work in the north	22	73%
Work specifically in northern communities	9	30%

General Comments:

- Direct and indirect benefits to north through their research
- Award provides freedom to concentrate on their research
- W. G. Weston Awards are recognized as prestigious and raise profile of their research
- Increased interaction with community members
- Engagement of community members into research (from analysis to field guides)
- Dissemination of knowledge across many platforms, raising the profile of northern issues (e.g., climate change)
- Educating people not from the north about the north





Northern Resident Award

- Provide support for researchers from the north to conduct research in the north
- 9 awards for 2013-2014 (total = \$80,000)

W. Garfield Weston Extended Stays Program

- Provide support for researchers to stay in northern communities for longer periods (up to 12 weeks)
- The aim is to facilitate dissemination of knowledge and build community-research ties
- Provide potential for collaboration among researchers and community members
- Engagement of community members into research
- Enhance research outcomes through incorporation of local traditional knowledge
- Evaluated by focus group and pilot program
 - Consensus has been positive
- Expected to launch soon





- One of 14 Networks of Centres of Excellence jointly funded by the 3 Research Councils of Canada and Industry Canada
- Funded at \$9.6M/y for second cycle (2011-2018)
- 38 research projects in natural, human health and social sciences covering the entire Canadian Coastal Arctic
- Over 150 Network Investigators from 30 universities and 20 Federal and provincial departments/agencies in all provinces of Canada
- Over 750 graduate students, PDFs, research associates and technician





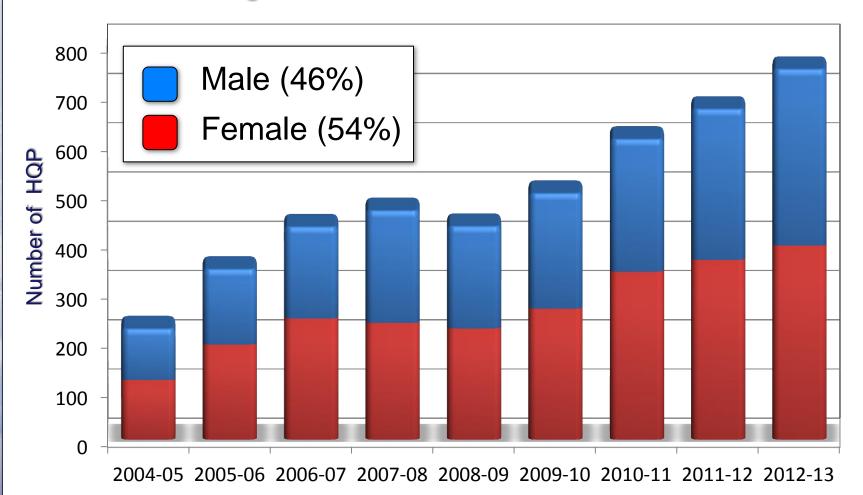


General objectives of ArcticNet:

- To build synergy among existing Centres of Excellence in the natural, human health and social arctic sciences.
- To involve Northerners, government and industry in the steering of the Network and scientific process through bilateral exchange of knowledge, training and technology.
- To increase and update the observational basis needed to address ecosystem-level questions raised by climate change and globalization in the Arctic.
- To provide academic researchers and their national and international collaborators with stable access to the coastal Canadian Arctic.
- To consolidate national and international collaborations in the study of the Canadian Arctic.
- To contribute to the **training of the next generation of experts**, from north and south, needed to study, model and ensure the stewardship of the changing Canadian Arctic.
- To help translate our growing understanding of the changing Arctic into impact assessments, national and global policies and adaptation strategies.

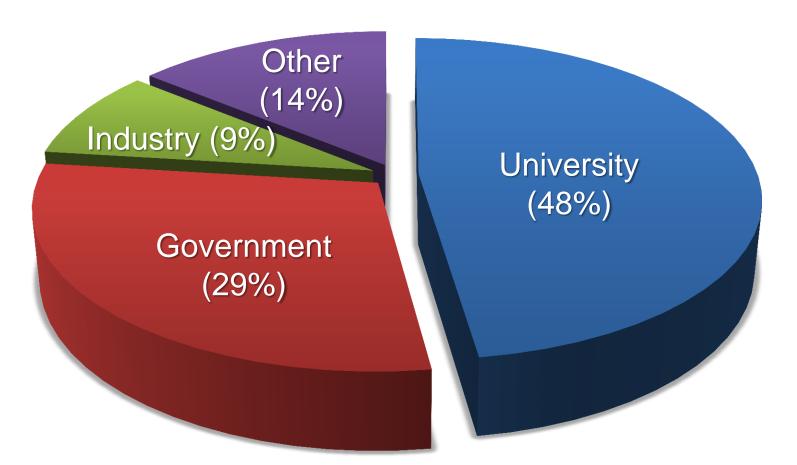


Regular increase in HQP since 2003

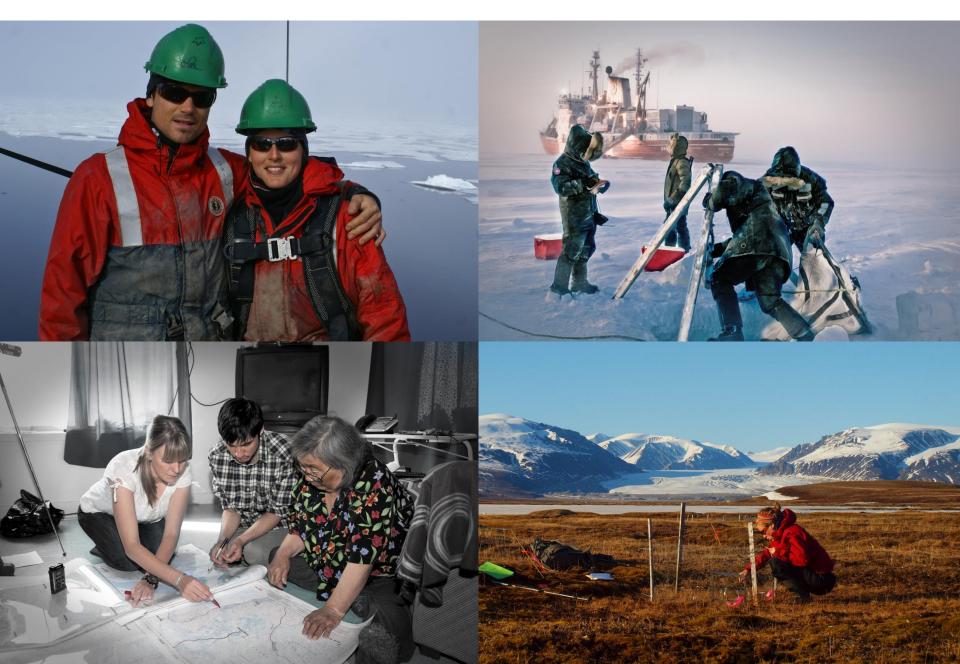




Post Graduate Employment (MSc, PhD, PDF)



Most HQP are not Northerners, but are all trained in the North



Highly Qualified Personnel Initiatives involving Northern HQP

- Schools on Board Program for high school students and teachers, including northern schools
- Northern mentoring programs & hiring
 of Northerners in research programs
- Former students now interns and undergraduate students in major Universities
- One Inuit Research Advisors funded in each of the 4 Inuit regions.
- One Inuit coordinator funded at ITK.



ArcticNet





- **BE INSPIRED** by interviews from Inuit graduates •
- **DISCOVER** post-secondary institutions, their support services, Inuit . students and graduates
- **UNDERSTAND** what to expect when you're living the student life •
- ACCESS information to help prepare for the journey, such as . scholarships, programs and lodging
- **CONNECT** with peers and mentors through an interactive map, . a discussion board and an online chat (Members Only)

www.tukitaarvik.ca





naulad NORTHERM STAINABL DEVELOPMEN

Jatan Obed







Videos Testimonies







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Yukon College









