An Update from Canada's National Nuclear Laboratory

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WMS 2022, March 8





Canadian Nuclear | Laboratoires Nucléaires Laboratories | Canadiens

OCNI/CNL BANQUET DINNER & INDUSTRY DAY

Date: September 6 & 7, 2023

Registration now open!



CNL is working with US partners to strengthen preparedness and response to physical and cyber attacks

Expertise in operational technology to support critical infrastructure organizations
 Showcasing the value of hands-on training essential for nuclear power plants

CNL partnered with the Clearwater River Dënë First Nation to support learning and research related to naturally occurring radioisotopes in the environment.





Advancing research to support the next generation of reactor technologies

CNL's **Canadian Nuclear Research Initiative** received largest number of submissions to-date in 2022 call for proposals.

CNL will also be hosting Global First Power's proposed small modular reactor.

HOME OF THE WORLD'S FIRST MICRO-MODULAR REACTOR

GLOBAL FIRST POWER



Enabling the development of novel radiopharmaceuticals.

CNL's **CNRI – Health Stream** announced first partnership with Jubilant Radiopharma earlier this year.

Moving forward with medical isotope production plans.

Using our experience, expertise and capabilities to lead the development of the Canadian Hydrogen Safety Centre.

CNL's Hydrogen Team has also expanded efforts:

- \checkmark Evaluation of large-scale H₂ based clean fuel production and CO₂ utilization
- ✓ Integrated H₂ infrastructure design techno-economic assessments
- R&D of hydrogen storage technologies

Supporting a growing fusion industry with decades of tritium expertise.



New partnerships are connecting fusion developers with the necessary tritium testing and demonstration equipment to advance their technologies.



CNL is strengthening our role as a nexus between government, industry and the Mester academic community.

A new, robust academic partnership program underway

Enabling advancements in R&D innovation through closer collaboration

✓ New training experiences for students and a pipeline for recruitment



UNRESTRICTED / ILLIMITE

We're building world-class facilities and capabilities

The Advanced Nuclear Materials Research Centre (ANMRC) will be one of the largest nuclear research facilities ever build in Canada.

The Science Collaboration Centre is supporting increased engagement with both industry and academia.

A Look Ahead



New Learning Opportunities for Post-Secondary & Graduate Students

CNL is Expanding its Workforce



And There's More!

New Capabilities to Build Canada's Expertise Centres of Research Excellence Hub for Clean Energy Demonstration & Deployment (CEDIR & SMR Siting)

CEDIR PARK



Radiopharmaceutical R&D and Medical Isotope Production



UNRESTRICTED / ILLIMITE

CNL'S FOOTPRINT IN THE OTTAWA VALLEY

A PARTNER IN THE COMMUNITY

INCREASED ENGAGEMENT AND BUILT RELATIONSHIPS WITH INDIGENOUS COMMUNITIES

- Host monthly meetings with local First Nations communities
- Released an Indigenous Procurement Strategy to create and identify opportunities for Indigenous businesses to engage with CNL and its strategic partners
- Introduced the CNL Indigenous Relations Procurement Strategy
- Drafted a Preliminary Reconciliation Action Plan
- Supported indigenous led studies on the NSDF footprint (Eastern wolf, bats, large mammals etc.)
- Supported four Traditional Land and Knowledge Studies
- Incorporated the perspectives and traditional knowledge of Indigenous Peoples in project planning, documentation and reports

7% of CNL employees who live in the regions of Pontiac and Renfrew Counties self-identify as Indigenous. (Pontiac: 21%, Renfrew County (7%) 2,739 74% OF CNL'S WORKFORCE RESIDES IN RENFREW & PONTIAC

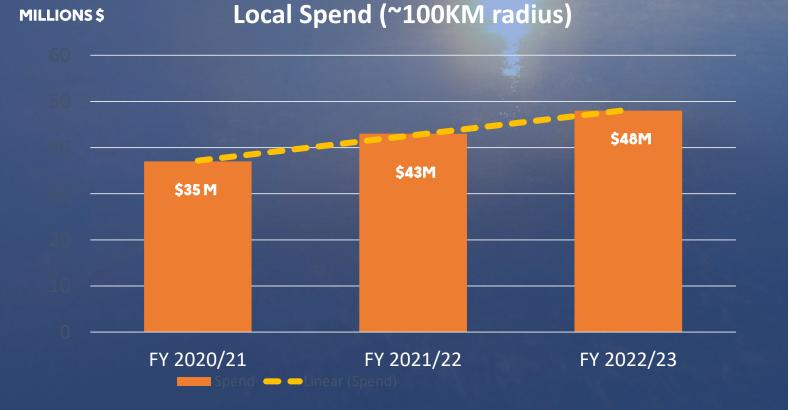
Pontiac County (QC) Allumettes Island Bryson Campbell's Bay Chapeau Waltham Fort-Coulonge Ladysmith L'iles aux Allumettes Litchfield Mansfield Rapides Des Joachims Shawville

Arnprior **Barrys Bay** Beachburg Braeside Burnstown Calabogie Chalk River Cobden Combermere Dacre **Deep River** Douglas Eganville **Foresters Falls** Golden Lake

Renfrew County (ON) Griffith **Haley Station** Killaloe Laurentian Hills Mackey McNab/Braeside Pembroke Petawawa Pikwakanagan Renfrew Rolphton **Round Lake Centre** Stonecliffe Westmeath Wilno

AN ECONOMIC DRIVER FOR THE REGION AND BEYOND

TOTAL PURCHASE ORDERS \$127,658,474.75 SINCE APRIL 2020

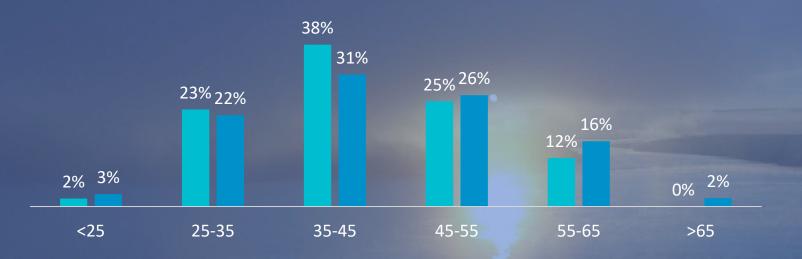


- 139 SUPPLIERS WITHIN 100
 KM RADIUS
 10.127 DUDGUAGE ODDEDG
- 10,126 PURCHASE ORDERS

Note: These numbers more than double when the radius is expanded to 200 km.

Pontiac CountyRenfrew County

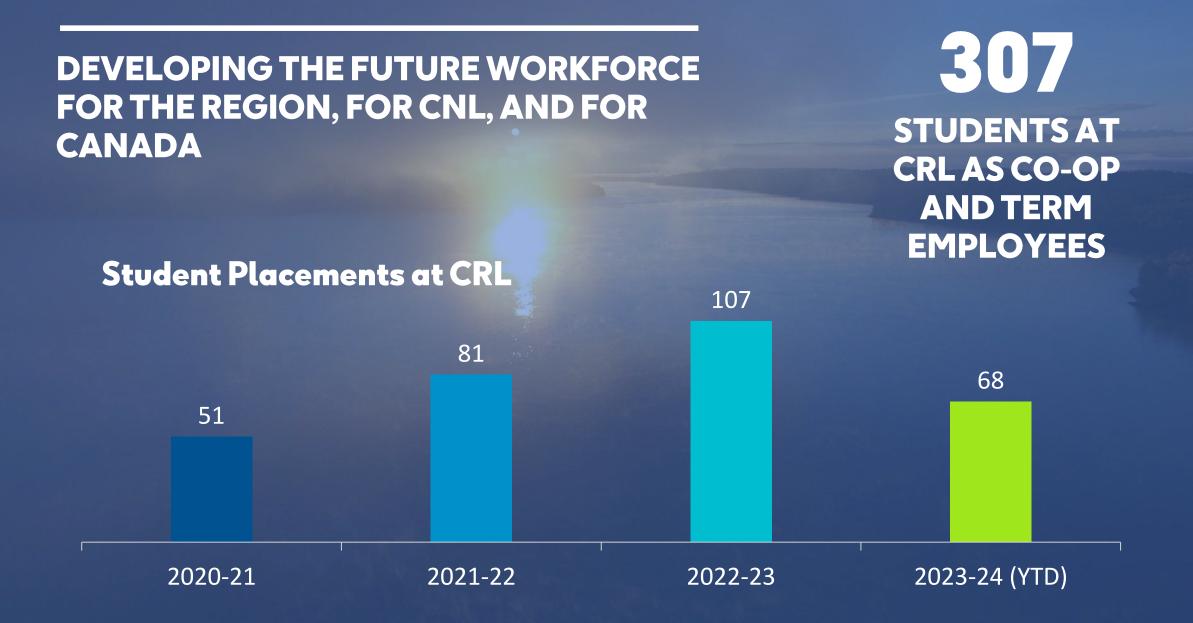
Age Distribution



A TOP TIER EMPLOYER IN THE REGION, ACROSS DISCIPLINES AND DEMOGRAPHICS

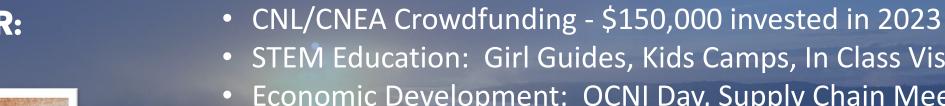
TOTAL SALARIES: \$269,000,000





A PROUD COMMUNITY **PARTNER:**

VATE



• STEM Education: Girl Guides, Kids Camps, In Class Visits • Economic Development: OCNI Day, Supply Chain Meet & Greet, OV Economic Development Meetings

• Averaging 2 school tours each month

• Special Events: PEO, Science Fairs, etc

Connected with school boards to enrich curricula



Thank you / Merci

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Laboratories

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