Free Summer Learning for Students

2023

New Nouveau Brunswick

We are pleased to offer these exciting opportunities for students to continue their learning with our many partners in New Brunswick education!
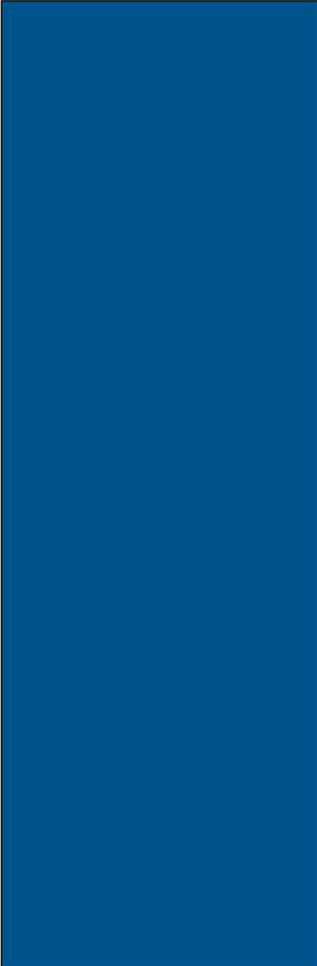
PARTNER:	**Brilliant Labs**
PARTNER CONTACT:	Name: Jeffrey Willson Email: **jeff@brilliantlabs.ca**
LOCATION:	Shediac, Dieppe/Moncton, Sussex, Saint John, St-Stephen, Blacks Harbour, St. Andrews, Fredericton, Grand Falls, Miramichi, Bathurst, Edmundston.
DATE (S):	July 4th - August 18th
TARGET AUDIENCE (GRADE):	Grades 2-10
TIME COMMITMENT:	Varies depending on the program and location. 1 - 6 hours per day
HOW TO SIGN UP (LINK/CONTACT):	To register for more information: **https://brilliantlabs.typeform.com/to/Eduq5CD0**
OPPORTUNITY DESCRIPTION:	Learn new coding and digital skills with Brilliant Labs' Free Day Camps and summer workshops being offered to youth throughout New Brunswick during summer 2023. Have fun learning about robotics, 3D design and 3D printing, coding, cyber security, and prototyping new inventions with hands-on sessions. From weekly themed day camps to special interest courses on Entrepreneurship, How to create a YouTube Channel, Cyber Security, Web and App Development and more!

PARTNER:	ICTC-CTIC Information & Communication Technology Council
PARTNER CONTACT:	Name: Timothy King Email: **t.king@ictc-ctic.ca**
LOCATION:	Virtual
DATE (S):	When convenient
TARGET AUDIENCE (GRADE):	9-10
TIME COMMITMENT:	6-8 hours
HOW TO SIGN UP (LINK/CONTACT):	Email Kathy Burnett **K.burnett@ictc-ctic.ca** to sign up for this online course
OPPORTUNITY DESCRIPTION:	Cyber Security for Youth (CS4Y) eLearning Course Modules 1 & 2: introducing cybersecurity and career pathways available. **https://ictcctic-my.sharepoint.com/:b:/g/personal/t_king_ictc-ctic_ca/ Ecy5GpOfTTFJv4S9YQo7ZAMBE1hhI63y8cd_RCj4jMnADQ?e=zdzVlZ** This is a non-technical introduction to career possibilities in cybersecurity. In Module One students learn about cybersafety and online privacy through a media-rich online learning environment. Module Two offers a career focused opportunities study of cybersecurity.

PARTNER:	**ICTC-CTIC Information & Communication Technology Council in partnership with EC Council**
PARTNER CONTACT:	Name: Timothy King Email: **t.king@ictc-ctic.ca**
LOCATION:	Virtual
DATE (S):	When convenient
TARGET AUDIENCE (GRADE):	11-12 students with ICT/networking and/or CyberTitan experience
TIME COMMITMENT:	Varying depending on course(s) selected
HOW TO SIGN UP (LINK/CONTACT):	Email Zehra Hasnain **zehra.hasnain@eccouncil.org** to sign up for these online training options
OPPORTUNITY DESCRIPTION:	ICTC has partnered with EC Council to offer enhanced cyber-education training for students interested. **https://www.eccouncil.org/academia/canada/** Courses range from defensive networking and ethical hacking training courses to capture the flag (live CTF) hackathons depending on student interest.

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PARTNER CONTACT:	Name: Timothy King Email: **t.king@ictc-ctic.ca**
LOCATION:	Virtual
DATE (S):	When convenient
TARGET AUDIENCE (GRADE):	11-12 – students with some background in information technology & networking
TIME COMMITMENT:	8-10 hours
HOW TO SIGN UP (LINK/CONTACT):	Email Kathy Burnett **K.burnett@ictc-ctic.ca** to sign up for this online course
OPPORTUNITY DESCRIPTION:	Cyber Security for Youth (CS4Y) eLearning Course Module 3 is a hands-on opportunity to develop real-world cybersecurity skills with units on encryption, network defence, operating system hardening and other cyber-specific technical skills. **https://ictcctic-my.sharepoint.com/:b:/g/personal/t_king_ictc-ctic_ca/ Ecy5GpOfTTFJv4S9YQo7ZAMBE1hhI63y8cd_RCj4jMnADQ?e=zdzVlZ** This is the technical side of the CS4Y program. Students use Field Effect's online Cyber-Range to explore different operating systems and cybersecurity processes and develop fundamental skills needed to take their next steps into cybersecurity. This course offers enhanced training for students wishing to pursue the CyberTitan national student cybersecurity competition competitively.

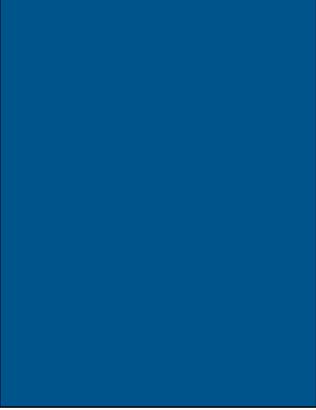| PARTNER:	**Centre of Excellence for Digital Innovation**
PARTNER CONTACT:	Name: Adam Binet Email: **Adam.Binet@gnb.ca**
LOCATION:	Virtual/Remote
DATE (S):	On-Going/All Summer
TARGET AUDIENCE (GRADE):	Students aged 13+
TIME COMMITMENT:	6+ Hours
HOW TO SIGN UP (LINK/CONTACT):	**https://forms.office.com/r/LTaWLHftgF**
OPPORTUNITY DESCRIPTION:	**OPERATING SYSTEMS BASICS** Cisco's Skills for All is an educational program created by Cisco Systems, a company that specializes in computer networking and technology. The academy offers a variety of courses and learning materials to help people, including young students like you, learn about computer networking and gain valuable skills in that field. The Cisco Networking Academy offers e-courses, which are online courses that you can take from the comfort of your own home. These courses are designed to make learning about computers, programming, and technology fun and interactive. You can think of them as a virtual classroom, where you have access to videos, interactive activities, quizzes, and even virtual labs to practice what you learn. When you join the Cisco Skills for All, you'll create an account and have access to the courses and learning materials. You can go through the lessons at your own pace and take quizzes to test your understanding. You can also interact with other students and instructors through discussion forums, where you can ask questions and share your knowledge with others. At the end of each course, there are usually exams or assessments to evaluate what you've learned. If you do well, you can earn certificates and/or digital badges that show your achievements. These certificates can be helpful if you want to pursue a career in networking or technology in the future.

In today's digital age, knowledge of operating systems is a crucial skill that can benefit students in school, post-secondary, and throughout their adult lives. The Operating Systems Basics course is a fantastic opportunity for anyone looking to build a foundational understanding of operating systems. Whether you're interested in pursuing a career in IT or simply want to improve your digital literacy, this course covers all the essential concepts and skills needed to understand the purpose and characteristics of operating systems. By completing this course, you will learn how to implement basic OS security, configure mobile device network connectivity and email, and gain a deep understanding of how operating systems work. So, don't miss out on this opportunity to acquire the skills you need for success in any IT career, and enroll in the Operating Systems Basics course today!

Every smart device uses an operating system (OS) — smart devices like personal computers, smartphones, game consoles, smart TVs, and the list continues. Whether the OS used is Windows, Linux, macOS, Android, or iOS, knowing how it works is a key digital skill you will need. Take this course to build your foundational knowledge for success in any IT career.

Operating Systems Basics teaches the fundamentals of operating systems. It covers basic concepts and skills needed to understand the purpose and characteristics of operating systems, the implementation of basic OS security, and how to configure mobile device network connectivity and email.

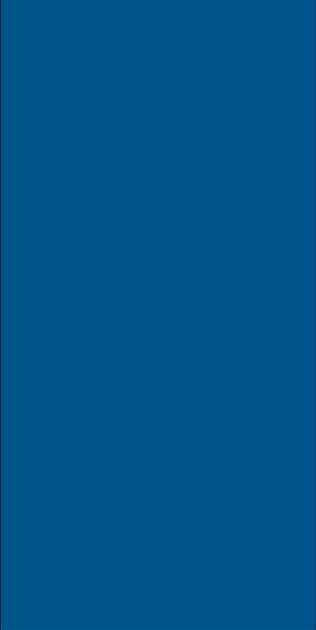| PARTNER:	**Centre of Excellence for Digital Innovation**
PARTNER CONTACT:	Name: Adam Binet Email: **Adam.Binet@gnb.ca**
LOCATION:	Virtual/Remote
DATE (S):	On-Going/All Summer
TARGET AUDIENCE (GRADE):	Students aged 13+
TIME COMMITMENT:	6+ Hours
HOW TO SIGN UP (LINK/CONTACT):	**https://forms.office.com/r/LTaWLHftgF**
OPPORTUNITY DESCRIPTION:	**COMPUTER HARDWARE BASICS** Cisco's Skills for All is an educational program created by Cisco Systems, a company that specializes in computer networking and technology. The academy offers a variety of courses and learning materials to help people, including young students like you, learn about computer networking and gain valuable skills in that field. The Cisco Networking Academy offers e-courses, which are online courses that you can take from the comfort of your own home. These courses are designed to make learning about computers, programming, and technology fun and interactive. You can think of them as a virtual classroom, where you have access to videos, interactive activities, quizzes, and even virtual labs to practice what you learn. When you join the Cisco Skills for All, you'll create an account and have access to the courses and learning materials. You can go through the lessons at your own pace and take quizzes to test your understanding. You can also interact with other students and instructors through discussion forums, where you can ask questions and share your knowledge with others. At the end of each course, there are usually exams or assessments to evaluate what you've learned. If you do well, you can earn certificates and/or digital badges that show your achievements. These certificates can be helpful if you want to pursue a career in networking or technology in the future.

Computers are everywhere! It is because the term "computers" refers to more than just a personal computer or laptop. Your smartphone is a mini-computer. A server is a super-computer. Cars, smart TVs, your game console – they all have a computer. Having a basic understanding for these devices and how they work is critical for success in today's digital world. This course is a great starting point for any IT career.

Computer Hardware Basics explores the fundamentals of computers and mobile devices, the components that comprise them, how they work, and basic troubleshooting tools and techniques.

PARTNER:	**Centre of Excellence for Digital Innovation**
PARTNER CONTACT:	Name: Adam Binet Email: **Adam.Binet@gnb.ca**
LOCATION:	Virtual/Remote
DATE (S):	On-Going/All Summer
TARGET AUDIENCE (GRADE):	Students aged 13+
TIME COMMITMENT:	6+ Hours
HOW TO SIGN UP (LINK/CONTACT):	**https://forms.office.com/r/LTaWLHftgF**
OPPORTUNITY DESCRIPTION:	**INTRODUCTION TO CYBERSECURITY** Cisco's Skills for All is an educational program created by Cisco Systems, a company that specializes in computer networking and technology. The academy offers a variety of courses and learning materials to help people, including young students like you, learn about computer networking and gain valuable skills in that field. The Cisco Networking Academy offers e-courses, which are online courses that you can take from the comfort of your own home. These courses are designed to make learning about computers, programming, and technology fun and interactive. You can think of them as a virtual classroom, where you have access to videos, interactive activities, quizzes, and even virtual labs to practice what you learn. When you join the Cisco Skills for All, you'll create an account and have access to the courses and learning materials. You can go through the lessons at your own pace and take quizzes to test your understanding. You can also interact with other students and instructors through discussion forums, where you can ask questions and share your knowledge with others. At the end of each course, there are usually exams or assessments to evaluate what you've learned. If you do well, you can earn certificates and/or digital badges that show your achievements. These certificates can be helpful if you want to pursue a career in networking or technology in the future.

PARTNER:	**Centre of Excellence for Digital Innovation**
PARTNER CONTACT:	Name: Adam Binet Email: **Adam.Binet@gnb.ca**
LOCATION:	Virtual/Remote
DATE (S):	On-Going/All Summer
TARGET AUDIENCE (GRADE):	Students aged 13+
TIME COMMITMENT:	30+ Hours
HOW TO SIGN UP (LINK/CONTACT):	**https://forms.office.com/r/LTaWLHftgF**
OPPORTUNITY DESCRIPTION:	**INTRODUCTION TO PYTHON** Cisco's Skills for All is an educational program created by Cisco Systems, a company that specializes in computer networking and technology. The academy offers a variety of courses and learning materials to help people, including young students like you, learn about computer networking and gain valuable skills in that field. The Cisco Networking Academy offers e-courses, which are online courses that you can take from the comfort of your own home. These courses are designed to make learning about computers, programming, and technology fun and interactive. You can think of them as a virtual classroom, where you have access to videos, interactive activities, quizzes, and even virtual labs to practice what you learn. When you join the Cisco Skills for All, you'll create an account and have access to the courses and learning materials. You can go through the lessons at your own pace and take quizzes to test your understanding. You can also interact with other students and instructors through discussion forums, where you can ask questions and share your knowledge with others. At the end of each course, there are usually exams or assessments to evaluate what you've learned. If you do well, you can earn certificates and/or digital badges that show your achievements. These certificates can be helpful if you want to pursue a career in networking or technology in the future. Learn fundamental concepts of computer programming and start building coding skills with the Python programming language.

Used by startups and tech giants like Google, Facebook, Netflix, and more, Python offers you endless possibilities for creating small and large-scale software projects. User-friendly with easy-to-read code, Python is a great first programming language to learn and requires no prior programming knowledge. Python skills open you up to careers in almost any industry and are required if you want to continue to more advanced, higher paying software development and engineering roles such as software engineer, systems administrator, and security engineer.

In this course, you will learn in-demand skills such as how to design, develop, and improve computer programs, methods for analyzing problems using programming, programming best practices, and more. The course also prepares you for the PCEP – Certified Entry-Level Python Programmer certification (Exam PCEP-30-0x).

Developed in collaboration with OpenEDG Python Institute.

PARTNER:	**The Power of Mindfulness and The Breathe**
PARTNER CONTACT:	Name: Daneen Dymond Email: **Daneen.dymond@gnb.ca**
LOCATION:	Online
DATE (S):	July 18th,10:30-11:00am
TARGET AUDIENCE (GRADE):	K-5 and Families
TIME COMMITMENT:	30 minutes
HOW TO SIGN UP (LINK/CONTACT):	Click **HERE** to join the meeting
OPPORTUNITY DESCRIPTION:	During this 30-minute session, students and families will learn the meaning of mindfulness and why it is useful to learn and practice every day. Students and families will learn how to regulate their breathing when they become anxious or overwhelmed – these techniques will help them be mindful by focusing on the present moment. Students will learn mindfulness breathing using the "BEE Breath, Ocean Breathing, Bear breathe, and the 5-star breathing technique.

PARTNER:	**Jack.Org**
PARTNER CONTACT:	Name: Megan Kimble Email: **megan@jack.org**
LOCATION:	Online
DATE (S):	Throughout the Summer
TARGET AUDIENCE (GRADE):	Middle/High School
TIME COMMITMENT:	2 hours
HOW TO SIGN UP (LINK/CONTACT):	*The Be There Certificate*
OPPORTUNITY DESCRIPTION:	*The Be There Certificate* is a free, digital, self-paced learning experience designed to increase mental health literacy and provide youth with the knowledge, skills, and confidence they need to safely support anyone who may be struggling with their mental health. It will provide a deep understanding of Be There's 5 Golden Rules — a simple but actionable framework teaching people how to recognize when someone might be struggling with their mental health, their role in supporting that person, and how to connect them to the help they need. The Be There Certificate is available in English, French and Spanish, offering universal best practices while diving deeper into the intersections of culture, identity, and social determinants of mental wellness.

PARTNER:	**Horizon Health Network**
PARTNER CONTACT:	Education Placement Team- **Education.Placements@HorizonNB.ca**
LOCATION:	Opportunity exists at Horizon Health Network facilities across NB.
DATE (S):	Date is selected by individual upon submitting request.
TARGET AUDIENCE (GRADE):	Target audience- High School and University students. Age restrictions may apply for certain departments.
TIME COMMITMENT:	The opportunity to shadow may last up to one 8-hour day shift in unrestricted departments. At the discretion of the manager, this opportunity may be extended up to three shifts.
HOW TO SIGN UP (LINK/CONTACT):	Link: **https://horizonhreducationplacements.ca/login**- *Students are onboarded and job shadow is coordinated by Horizon's Education Placement Specialist.* To submit a new job shadow request: 1. Select "Register a new account" 2. Select "I am an individual interested in career exploration"
OPPORTUNITY DESCRIPTION:	Individuals can apply for an on-site job shadow experience at Horizon Health Network through the Education Placement Portal. The applicant will select a discipline of interest to actively explore through observation and discussion. Opportunities and/or experiences may be limited based on departmental restrictions, hospital regulations, safety implications, workforce demands and/or a patients' right to refuse to participate in job shadowing experiences.

PARTNER:	**Mango Program / 5210 A Way Of Life**
PARTNER CONTACT:	Name: Renée Frenette Email: **Renee.Frenette@HorizonNB.Ca**
LOCATION:	
DATE (S):	Anytime
TARGET AUDIENCE (GRADE):	K to 8
TIME COMMITMENT:	
HOW TO SIGN UP (LINK/CONTACT):	No need to sign up. Link: **Resources & Tools - 5210 A Way of Life** then under "Groups" click on "Schools" and choose the activity you want.
OPPORTUNITY DESCRIPTION:	There are several suggested activities on the 5210.ca website, created for the K to 8 group.

PARTNER:	**COE-Entrepreneurship**
PARTNER CONTACT:	Name: Jill Shaw Email: **jill.shaw@gnb.ca**
LOCATION:	Online
DATE (S):	July 11th 9 a.m. – 9:30 a.m.
TARGET AUDIENCE (GRADE):	Grades 9-12
TIME COMMITMENT:	30 minutes
HOW TO SIGN UP (LINK/CONTACT):	**Click HERE to join the meeting**
OPPORTUNITY DESCRIPTION:	During this 30-minute session, students will learn the meaning behind the term "cryptocurrency." Jill Shaw, COE Lead for Entrepreneurship will use real life examples to explain the controversial investment method that has peaked the interest of teenagers. This session will also outlines how to discern safe versus unsafe investments.

PARTNER:	**JA New Brunswick**
PARTNER CONTACT:	Name: Haley Bungay Email: **haley@janewbrunswick.ca**
LOCATION:	New Brunswick
DATE (S):	July & August
TARGET AUDIENCE (GRADE):	Grades 3 through 12
TIME COMMITMENT:	1 to 4 hours per program
HOW TO SIGN UP (LINK/CONTACT):	Visit **www.jacampus.org** to sign up and begin self-directed programs
OPPORTUNITY DESCRIPTION:	Junior Achievement is pleased to provide our enrichment programs completely free of charge to students and parents across New Brunswick in both official languages! With programs centred around financial literacy, entrepreneurship and work readiness, there is a program for every student to excel in! From opening your own business to preparing for life after secondary school, Junior Achievement's Digital Campus is available to help students plan for a successful future! Programs are self-directed and can be completed at the student's own pace.

PARTNER:	**The Gaia Project**
PARTNER CONTACT:	Name: Ainslee MacMillan Email: **ainslee.macmillan@thegaiaproject.ca**
LOCATION:	Virtual (Microsoft Teams)
DATE (S):	Wednesdays: July 26 (What are Green Jobs? Information session), August 2 (French Green Careers Panel), August 16 (English Green Careers Panel). All sessions are from 12:00-1:00.
TARGET AUDIENCE (GRADE):	Grades 6-12
TIME COMMITMENT:	1 hour per session
HOW TO SIGN UP (LINK/CONTACT):	Contact: **ainslee.macmillan@thegaiaproject.ca**
OPPORTUNITY DESCRIPTION:	**GREEN CAREERS LEARNING SERIES** During this series, you will learn about green careers: what do they look like? Why are they important? How did these individuals get to where they are today? And much more. Session 1: Learn more about what green jobs are, complete activities, and learn from one of our Green Experts as they discuss what their job is, how they got to where they are today, and provide advice for someone looking for a career like theirs. Sessions 2 & 3: Tune into a virtual panel where we interview multiple experts who work in a green career. You will have the chance to listen to them share what they love about their work, how they got there, and will have the opportunity to ask questions about their jobs and career paths. Sessions 2 will be in French, and session 3 will be in English.

PARTNER:	**COE Energy**
PARTNER CONTACT:	Name: Adam Trider
LOCATION:	Online
DATE (S):	July 1 to Aug 10
TARGET AUDIENCE (GRADE):	Middle and High School Students
TIME COMMITMENT:	1 hour per week
HOW TO SIGN UP (LINK/CONTACT):	Go to **Switch Classroom (switchon.org)** and enter the classroom token **1JIZEP**
OPPORTUNITY DESCRIPTION:	Want to learn more about the energy sector? Consider joining our Energy Education class this summer using Switch Classroom. Switch Classroom is a completely free, video-based, online learning platform providing an unbiased, data-driven energy curriculum to teachers and students.

PARTNER:	**St. Thomas University (Recruitment)**
PARTNER CONTACT:	Name: Alex Dascalu & Louise Touchbourne Email: **alex@stu.ca** & **louise@stu.ca**
LOCATION:	St. Thomas University & Zoom
DATE (S):	July 18, 2023 (In-Person) August 15, 2023 (Zoom)
TARGET AUDIENCE (GRADE):	Grade 9-12
TIME COMMITMENT:	July 18 (10:00 am – 2:00 pm) August 15 (1:00 pm-2:00 pm)
HOW TO SIGN UP (LINK/CONTACT):	**https://forms.office.com/Pages/ResponsePage**
OPPORTUNITY DESCRIPTION:	Students are invited to join us either in-person or virtually about exploring university options and offsetting costs with scholarships, bursaries and other opportunities. Our Admissions Counsellor will share insight on searching for and applying to universities and scholarships. At our in-person event, students will be invited to lunch and a campus tour in addition to attending the presentation.