ISAAC ASIMOV:

THERE IS A SINGLE LIGHT OF SCIENCE AND TO BRIGHTEN IT ANYWHERE IS TO BRIGHTEN IT EVERYWHERE.
NATIONAL NETWORK

Science AL!VE is a network member of Actua.
Actua provides training, resources and support to its national network of members located at universities and colleges across Canada in delivery of science, technology, engineering and mathematics (STEM) education outreach programming. Each year, these members engage over 225,000 youth in 500 communities nationwide. Please visit Actua at www.actua.ca.

OUR SPONSORS

2016 Actua National Funders

SUMMER 2017

Welcome to Science AL!VE’s summer of SCInnovation! Science AL!VE is a not-for-profit, undergraduate-run organization that is based at Simon Fraser University. Join us for hands-on and interactive STEM (science, technology, engineering and math) camps that introduce campers in kindergarten to grade 9 to the innovative and explorative world of discovery. From chemistry to biology to engineering and computer science, each of our camps introduces students of all ages to a variety of STEM fields.
REGISTRATION

Visit our website sciencealive.ca to register for this year’s summer camps! Each camp is co-ed with the exception of AL!VE Girls camps and registration is done by grade completed as of June 2017. All camps run 8:30am-3:30pm and we have pre and post care available. We also have bursaries available, should you be interested in applying please visit our website. Any questions? Feel free to call us at 778-782-5912 or send us an email at sciencealive@sfu.ca

Please note: campers who are entering kindergarten in September 2017 are not eligible to participate in our programs.
Mini Scientists
(Grades K-1)
Back by popular demand, our Mini Scientists camps introduce our youngest campers to the exciting world of asking questions, inquiry learning, and discovery. Join us to learn about extreme environments, radical reactions, and exciting engineering in this summer’s camps.

Mini X-treme Environments
Delve into the world of weather and extreme environments and learn how life on Earth has adapted to live everywhere from the deepest parts of the oceans to the highest mountain peaks and icescapes to molten lava. Learn how different organisms have adapted to these extreme environments and how humans, with the help of engineering, may be able to live there in the future.

- July 4th-7th (4 days) $164.00
- July 24th-28th $205.00
- August 14th-18th $205.00

Mini Radical Reactions
Chemistry doesn’t just matter...it is matter! This explosively exciting chemistry camp will feature our favourite reactive experiments while teaching campers all about the molecules that make up everything on Earth. Campers will get to be chemists for a week and run their very own experiments.

- July 10th-14th $205.00
- July 31st-Aug 4th $205.00
- August 21st-25th $205.00

Mini Innovators
This camp features a plethora of engineering and technology activities! The sky’s the limit for this camp as our future engineers will have the opportunity to design and build structures and explore introductory computer science and technology. Watt are you waiting for? Sign up now!

- July 17th-21st $205.00
- August 8th-11th (4 days) $164.00
Quark Camp (Grades 2-3)

This year our quark campers will discover how our favourite technology works, the wonderful world of waves, and the wonders that lie outside the planet we call home.

Quark Gadgets and Gizmos

Join us for a week of discovery and learn the science behind the various modern devices we use daily. We will investigate everything from how our computers process information to how engineers design and build bridges. How do telescopes allow us to see deep into space and microscopes show us what our cells our made of? Come discover the wonderful world of technology and innovation.

Juli 4th-7th (4 days) $164.00
July 24th-28th $205.00
August 14th-18th $205.00

Quark Making Waves

Join us as we learn about all types of waves! From colours to earthquakes to sound and light this camp gets students to dip their toes and make a few ripples in the vast ocean that is STEM (science, technology, engineering and math).

July 10th-14th $205.00
July 31st-Aug 4th $205.00
August 21st-25th $205.00

Quark Spectacular Space

A long time ago, in a galaxy far, far away...the expanses of space were waiting to be explored. Now, in Quark Spectacular Space, campers will boldly go where no one has gone before. Join us on our trek through the galaxies as we learn about the wonders that lie beyond the planet we call home.

July 17th-21st $205.00
August 8th-11th (4 days) $164.00
Electron Camp (Grades 4-5)
Join our electrons this summer and get excited about STEM! Delve into the worlds of engineering, robotics, and forensic sciences this summer.

Electron Build It Better
Calling all engineers! Join us for a week in our imagination station and delve into the wonderful world of innovation and technology. With a focus on renewable energy and sustainability, campers will get to design their own solutions to some of the biggest problems facing the world today and build it better!

- July 4th-7th (4 days) $164.00
- July 24th-28th $205.00
- August 14th-18th $205.00

Electron LEGO Mindstorms
What do you call the robot that takes the longest route? R2-Detour! Back by popular demand, join us for a brand new spin on our LEGO Mindstorms camp! Design, build, program and maneuver robots through a variety of tasks and challenges using our LEGO Mindstorm EV3 sets.

- July 10th-14th $205.00
- July 31st-Aug 4th $205.00
- August 21st-25th $205.00

Electron Fantastic Forensics
Fasten your seatbelts and join us in this Bill-Nye-meets-CSI fantastic world of forensics. Discover why DNA and fingerprints can be used to solve crimes and maybe even solve your very own Science ALIVE mystery.

- July 17th-21st $205.00
- August 8th-11th (4 days) $164.00
Tech Camp (Grades 4-9)

Don’t miss out on your chance to register for our popular Tech Camps! This year learn about computers, robotics, programming, and engineering.

Tech Codemakers (Grades 4-7)

As Edward Teller once said, “today’s science is tomorrow’s technology”! Join us for a week of exploring programming and coding with brand new curriculum. Campers will use our LEGO Mindstorm EV3 kits as well as other programs like Scratch to explore cyberspace and adventure to a new technological dimension.

- July 4th-7th (4 days) $172.00
- July 24th-28th $215.00
- August 14th-18th $215.00

Technovation (Grades 4-7)

Bring your innovation and imagination to this year’s Technovation camp! A combination of engineering and technology, this camp will challenge campers to build, design, and explore the field of tomorrow’s STEM.

- July 10th-14th $215.00
- July 31st-Aug 4th $215.00
- August 21st-25th $215.00

FAS Tech (Grades 7-9)

Back by popular demand our FAS Tech camp introduces our oldest campers to the wonderful world of robotics. Build and program a robot using our VEX robotics to complete a variety of tasks and challenges. Put your imagination to the test in this innovative camp!

- August 8th-11th (4 days) $172.00
**Ion Camp**  
*(Grades 6-7)*

Put your science skills to the test in our inquiry camp and learn all about robotics and the study of mechatronics and engineering! A combination of challenges and hands-on activities, this camp is perfect for STEM enthusiasts and campers who are brand new to the STEM world.

**AL!VE Girls**  
*(Grades K-5)*

AL!VE Girls is a unique learning environment where lessons are taught by enthusiastic women in STEM! This all-girls program is designed to boost confidence and passion for STEM through an inclusive and engaging environment. Join us to learn all about STEM and Innovation this summer!

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**Ion LEGO Mechatronics**

Robot fans, this is the camp for you! The LEGO Mechatronics camp will introduce our scientists to the study of mechatronics and engineering. Using our LEGO Mindstorm EV3 kits, campers will build, program and test their creations through a range of challenges and tasks.

*July 17th-21st*  $205.00

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**Ion Inquiry**

Join us for a week of inquiry, innovation, inquisition, and imagination! Campers will get to design and test their own experiments to answer questions they have about the world. Ever wonder what the science is behind why the sky is blue or how computers work or how DNA programs our bodies or how triangles are so often used to build bridges? This is the perfect camp for you!

*August 8th-11th (4 days)*  $164.00

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**AL!VE Girls Junior STEMtastic**  
*(Grades K-2)*

Join the ranks of famous scientists like Marie Curie and Margaret Hamilton and discover the wonderful world of STEM (science, technology, engineering and math). Campers will learn everything from biology to engineering to chemistry to computer science. Take the plunge and be immersed in the world that our instructors call home.

*July 10th-14th*  $205.00

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**AL!VE Girls Senior InnovateHer**  
*(Grades 3-5)*

Bring your imagination and innovation to our week of InnovateHer camp! Campers will get to explore the exciting world of engineering and technology and apply this to real world problems. How do we make the world a better place? Come join us and find out!

*August 21st-25th*  $205.00
Surrey Camps 
(Grades 2-7)
This summer we are pleased to return to SFU Surrey for 3 weeks with some of our most popular camp topics! Join us on while we adventure through the galaxy, learn about technology, solve mysteries and become engineers.

Surrey Junior Spectacular Space 
(Grades 2-3)
A long time ago, in a galaxy far, far away...the expanses of space were waiting to be explored. Now, in Junior Spectacular Space, campers will boldly go where no one has gone before. Join us on our trek through the galaxies as we learn about the wonders that lie beyond the planet we call home.
July 24th-28th $205.00

Surrey Junior Gadgets and Gizmos 
(Grades 2-3)
Join us for a week of discovery and learn the science behind the various modern devices we use daily. We will investigate everything from how our computers process information to how engineers design and build bridges. How do telescopes allow us to see deep into space and microscopes show us what our cells our made of? Come discover the wonderful world of technology and innovation.
July 31st-August 4th $205.00

Surrey Senior Fantastic Forensics 
(Grades 4-7)
Fasten your seatbelts and join us in this Bill-Nye-meets-CSI fantastic world of forensics. Discover why DNA and fingerprints can be used to solve crimes and maybe even solve your very own Science ALIVE mystery.
July 24th-28th $205.00

Surrey Senior Build It Better 
(Grades 4-7)
Calling all engineers! Join us for a week in our imagination station and delve into the wonderful world of innovation and technology. With a focus on renewable energy and sustainability, campers will get to design their own solutions to some of the biggest problems facing the world today and build it better!
August 8th-11th (4 days) $164.00
PRE & POST CARE
We will be running both pre-care (7:30am-8:30am) and post-care (3:30pm-5:30pm). Pre-care is an additional $25/week and post-care is an additional $50/week.

ADDITIONAL INFO
1. Campers can be dropped off and picked up at South East Classroom Block (map included).
2. Campers are asked to pack a nut-free lunch with 2 snacks and a water bottle. If campers require a purchased lunch, please fill out a lunch slip (included in pre-camp email).
3. On Thursdays we invite all families to attend our Open House beginning at 2pm. Campers will present some of their favourite projects of the week and we will put on a science show where we do a variety of science demonstrations.
4. On Fridays students may participate in water games (weather dependent). We recommend bringing a change of clothes on this day.

BURSARY INFO
Science AL!VE has both full and partial bursaries available for all programs. For more information and to apply please visit:
http://www.sciencealive.ca/financial-assistance/

CONTACT US
Science AL!VE
C/o Faculty of Applied Sciences
8888 University Drive
Burnaby, BC
V5A 1S6
Phone: 778-782-5912
Email: sciencealive@sfu.ca
Web: www.sciencealive.ca