

Team BC
2018 Canada-Wide Science Fair Results



First Name Last Name Project Title Region

Platinum Medal

Best Senior Project Award	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
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Gold Medals

Senior	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
Intermediate	Jana	Steyn	Between The Q & T	Cariboo Mainline
Junior	Rebecca	Rathlef	Are Natural Products Effective Sunscreens?	Greater Vancouver
	Gavin	Howells	A Unique Approach to Test the Effects of Cell Phone Radiation using Yeast Cells	Yukon/Stikine

Silver Medals

	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
Intermediate	Melody	Cheng	Purifying Water: Using Beta-CD-CA Polymer to Remove Bisphenol A	Vancouver Island
	Andy Jia Kan	Luo	Waste Nothing: A Future for the Microbial Electrolysis Cell	Greater Vancouver
	Yimeng	Li	Developing a Novel Bacterial-Induced Cu(II) Crystallization Method	Greater Vancouver
	Mohammed	Al-Seragi	Don't Meddle With Metal: The Remediation of Pb(II) Wastewater	Greater Vancouver
				Central Okanagan
Junior	Rory	Wimberley	Utility Stability: The Effectiveness of Self-Built Camera Stabilizers	Greater Vancouver
	Jodh Singh	Nahal	Generate Bioenergy & Simultaneously Treat Wastewater with MFCs: A Novel Approach	Cariboo Mainline
	Lauren Grace	Ohnona	Microplastics in Our Local Shellfish	Vancouver Island
	Harrison	Cormier	Evaluating Stress Reduction Methods in Adolescents by Analyzing Key Bio Signals	Greater Vancouver

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Bronze Medals

Senior	Natasha	Burgert	The Solar EV: Applying high efficiency solar modules in sustainable transport	South Fraser
	Rory	Smith	Targeted Oxidation: A New Method for Local Chemotherapeutic Medicine	East Kootenay
	Albert	Yang	Control for Groups of Robots - Collaborative Search and Rescue	Vancouver Island
	Rebecca	Baron	A Novel Microbial Biofiltration Technology for Improving Indoor Air Quality	Greater Vancouver
Intermediate	Milo	Eirew	Cardio Cardigan - A lifesaving robotic wearable to provide mobility & CPR	Greater Vancouver
	Fawzan	Hussain	Use of EEGs to Analyze Student Attention during Math Assessment	South Fraser
	Teryl	Bates	A Fibonacci Solution ? Mitigating Landslides and Avalanches	Central Okanagan
	Kate	MacMillan	Pitting Against Artificial Preservatives	Central Okanagan
	Ainsley	Horton	Pitting Against Artificial Preservatives	Central Okanagan
	Aaron	Lee	Bunny Business	Greater Vancouver
	Sana	Shams	Radioactivity vs. Fashion	South Fraser
	Adam	Patton	The Power of Water: Finding Alternative Electrodes for Hydrogen Production	Cariboo Mainline
	Riya	Gandhi	A Cure for What ?Ails? You: A Study of the Antibacterial Effects of Garlic	Vancouver Island
	Daniel	Kornylo	Light Orchestrator Part 1	Northern Vancouver Island
Junior	Tess	Wellington	Here?s the Buzz About Bee Houses	Pacific Northwest
	Chloe	Williston	Nature: who knows, who cares?	Pacific Northwest
	Brooklynn	Watson	Genome Engineering Technologies	Northern Vancouver Island
	Bruce	Porter	South Paw ? Examining Paw Preference in Dogs and Connections to Human Handedness	Yukon/Stikine
	Kalie	Bennett	Coloured Overlays: A Dyslexic?s Friend?	Yukon/Stikine
	Willa	Crowley	Ungulate and Canid Interactions at a Mineral Lick	Central Interior British Columbia
	Kayli	Taylor	Hydroseeding: Plant regrowth help for logging blocks where wood chips are used	Northern British Columbia
	Catherine	Diyakonov	Power Powder	Greater Vancouver
	Hayden	Persad	Food Waste: The Solution to Our Plastic Problem	West Kootenay & Boundary
	Cheryl	Chen	Cede: A Novel Approach to Astronomical Profit	South Fraser
Stuti	Sharma	Cede: A Novel Approach to Astronomical Profit	South Fraser	

Challenge Awards

Intermediate - Health	Jana	Steyn	Between The Q & T	Cariboo Mainline
Intermediate - Energy	Adam	Patton	The Power of Water: Finding Alternative Electrodes for Hydrogen Production	Cariboo Mainline
Junior - Energy	Jodh Singh	Nahal	Generate Bioenergy & Simultaneously Treat Wastewater with MFCs: A Novel Approach	Cariboo Mainline
Senior - Resources	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
Senior - Innovation	Nicolas	Fedrigio	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island

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Western University Scholarships

\$4000 Entrance Scholarship	Nicolas	Fedriago	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
	Rebecca	Rathlef	Are Natural Products Effective Sunscreens?	Greater Vancouver
	Gavin	Howells	A Unique Approach to Test the Effects of Cell Phone Radiation using Yeast Cells	Yukon/Stikine
	Jana	Steyn	Between The Q & T	Cariboo Mainline
\$2000 Entrance Scholarship	Melody	Cheng	Purifying Water: Using Beta-CD-CA Polymer to Remove Bisphenol A	Vancouver Island
	Andy Jia Kan	Luo	Waste Nothing: A Future for the Microbial Electrolysis Cell	Greater Vancouver
	Yimeng	Li	Developing a Novel Bacterial-Induced Cu(II) Crystallization Method	Greater Vancouver
	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
	Rory	Wimberley	Utility Stability: The Effectiveness of Self-Built Camera Stabilizers	Greater Vancouver
	Jodh Singh	Nahal	Generate Bioenergy & Simultaneously Treat Wastewater with MFCs: A Novel Approach	Cariboo Mainline
	Lauren Grace	Ohnona	Microplastics in Our Local Shellfish	Vancouver Island
	Harrison	Cormier	Evaluating Stress Reduction Methods in Adolescents by Analyzing Key Bio Signals	Greater Vancouver
Mohammed	Al-Seragi	Don't Meddle With Metal: The Remediation of Pb(II) Wastewater	Greater Vancouver	
\$1000 Entrance Scholarship	Milo	Eirew	Cardio Cardigan - A lifesaving robotic wearable to provide mobility & CPR	Greater Vancouver
	Fawzan	Hussain	Use of EEGs to Analyze Student Attention during Math Assessment	South Fraser
	Teryl	Bates	A Fibonacci Solution ? Mitigating Landslides and Avalanches	Central Okanagan
	Kate	MacMillan	Pitting Against Artificial Preservatives	Central Okanagan
	Ainsley	Horton	Pitting Against Artificial Preservatives	Central Okanagan
	Natasha	Burgert	The Solar EV: Applying high efficiency solar modules in sustainable transport	South Fraser
	Rory	Smith	Targeted Oxidation: A New Method for Local Chemotherapeutic Medicine	East Kootenay
	Albert	Yang	Control for Groups of Robots - Collaborative Search and Rescue	Vancouver Island
	Rebecca	Baron	A Novel Microbial Biofiltration Technology for Improving Indoor Air Quality	Greater Vancouver
	Tess	Wellington	Here's the Buzz About Bee Houses	Pacific Northwest
	Chloe	Williston	Nature: who knows, who cares?	Pacific Northwest
	Brooklynn	Watson	Genome Engineering Technologies	Northern Vancouver Island
	Bruce	Porter	South Paw ? Examining Paw Preference in Dogs and Connections to Human Handedness	Yukon/Stikine
	Kalie	Bennett	Coloured Overlays: A Dyslexic's Friend?	Yukon/Stikine
	Willa	Crowley	Ungulate and Canid Interactions at a Mineral Lick	Central Interior British Columbia
	Kayli	Taylor	Hydroseeding: Plant regrowth help for logging blocks where wood chips are used	Northern British Columbia
	Catherine	Diyakonov	Power Powder	Greater Vancouver
	Hayden	Persad	Food Waste: The Solution to Our Plastic Problem	West Kootenay & Boundary
	Cheryl	Chen	Cede: A Novel Approach to Astronomical Profit	South Fraser
	Stuti	Sharma	Cede: A Novel Approach to Astronomical Profit	South Fraser
	Aaron	Lee	Bunny Business	Greater Vancouver
	Sana	Shams	Radioactivity vs. Fashion	South Fraser
	Adam	Patton	The Power of Water: Finding Alternative Electrodes for Hydrogen Production	Cariboo Mainline
	Riya	Gandhi	A Cure for What ?Ails? You: A Study of the Antibacterial Effects of Garlic	Vancouver Island
	Daniel	Kornylo	Light Orchestrator Part 1	Northern Vancouver Island

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University of Ottawa

\$4,000 Entrance Scholarship	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
\$2000 Entrance Scholarship	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
\$1000 Entrance Scholarship	Natasha	Burgert	The Solar EV: Applying high efficiency solar modules in sustainable transport	South Fraser
	Rory	Smith	Targeted Oxidation: A New Method for Local Chemotherapeutic Medicine	East Kootenay
	Albert	Yang	Control for Groups of Robots - Collaborative Search and Rescue	Vancouver Island
	Rebecca	Baron	A Novel Microbial Biofiltration Technology for Improving Indoor Air Quality	Greater Vancouver

University of Manitoba

\$5000 Entrance Scholarship	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver

The University of British Columbia (Vancouver)

\$4000 Entrance Scholarship	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
\$2000 Entrance Scholarship	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver

The Gwyn Morgan and Patricia Trottier Foundation

Youth Can Innovates Award	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
European Union Contest for	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island

Carelon University

\$4000 Entrance Scholarship	Nicolas	Fedrico	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
\$2000 Entrance Scholarship	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
\$1000 Entrance Scholarship	Natasha	Burgert	The Solar EV: Applying high efficiency solar modules in sustainable transport	South Fraser
	Rory	Smith	Targeted Oxidation: A New Method for Local Chemotherapeutic Medicine	East Kootenay
	Albert	Yang	Control for Groups of Robots - Collaborative Search and Rescue	Vancouver Island
	Rebecca	Baron	A Novel Microbial Biofiltration Technology for Improving Indoor Air Quality	Greater Vancouver

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Dalhousie University, Faculty of Science

\$5000 Entrance Scholarship	Nicolas	Fedrigo	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
	Jason	Chen	Value-added Phytochemical Cocktail from Inedible Dragon Fruit Peel	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver
\$2500 Entrance Scholarship	Jacky	Zhao	Augmenting Hearing Capabilities of the Deaf with Natural Language Processing	Greater Vancouver
	Selina	Zhou	How Stressed Are You?	Greater Vancouver
	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver

The Actuarial Foundation of Canada

The Actuarial Foundation of Canada Award	Jana	Steyn	Between The Q & T	Cariboo Mainline
	Harrison	Cormier	Evaluating Stress Reduction Methods in Adolescents by Analyzing Key Bio Signals	Greater Vancouver
	William	Shen	Exploring the Genetic Basis of Dengue Virus Transmission	Greater Vancouver

Intact Financial Corporation

Intact Climate Change Resilience Award	Teryl	Bates	A Fibonacci Solution ? Mitigating Landslides and Avalanches	Central Okanagan
	Raul	Pinol Pascual	Geothermal Power Plant Producing Water by Condensation	Fraser Valley

University of Toronto

Engineering Award	Nicolas	Fedrigo	Spinal Fusions: Redesigning the Pedicle Probe to Prevent Vertebral Breaches	Vancouver Island
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York University, Lassonde School of Engineering

STEM Entrepreneur Bootcamp Scholarship Awards	Nick	Murray	Low-Cost, Point-of-Care Skin Cancer Detection	Greater Vancouver
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