

# Phil De Luna

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<b>Highlights</b>	<p>2019 Forbes Top 30 Under 30 – Energy Carbontech Co-founder &amp; Finalist (1 of 10 globally) in \$20M Carbon XPRIZE Youngest director in the history of the National Research Council Canada 32 publications in high-impact journals with multiple in <i>Nature</i> and <i>Science</i> Over 7 years of experience in research and development of clean energy technologies 30 conference presentations, 13 awards, 2 patents</p>									
<b>Education</b>	<table><tr><td>2015 – 2018</td><td>University of Toronto</td><td>PhD Materials Science &amp; Engineering</td></tr><tr><td>2013 – 2015</td><td>University of Ottawa</td><td>MSc Chemistry</td></tr><tr><td>2009 – 2013</td><td>University of Windsor</td><td>BSc [H] Chemistry</td></tr></table>	2015 – 2018	University of Toronto	PhD Materials Science & Engineering	2013 – 2015	University of Ottawa	MSc Chemistry	2009 – 2013	University of Windsor	BSc [H] Chemistry
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<b>Experience</b>	<p><b>Program Director at National Research Council Canada</b> <i>Feb 2019 – Present</i></p> <ul style="list-style-type: none"><li>Leading a \$57M collaborative research program on Canada-made energy materials to decarbonize the oil &amp; gas/petrochemical industry.</li><li>Supervising a team of 20 researchers in three thrusts – CO<sub>2</sub> recycling, H<sub>2</sub> technology, and AI for materials discovery.</li><li>Member of the OECD Advanced Materials Steering Committee on collaborative research.</li></ul> <p><b>Member of the Board of Directors at Carbon Management Canada</b> <i>Sep 2019 – Present</i></p> <ul style="list-style-type: none"><li>Providing strategic direction and assessing the health of a non-profit that accelerates the development and testing of GHG-reducing technologies to market.</li></ul> <p><b>Co-Founder &amp; Finalist in Carbon XPRIZE</b> <i>Sep 2016 – Mar 2019</i></p> <ul style="list-style-type: none"><li>Finalist (1 of 10 globally) and raised \$2.0M in non-dilutive funding.</li><li>Led a team to scale up CO<sub>2</sub> conversion technology from bench to prototype.</li><li>2019 Creative Destruction Lab – Energy cohort, a highly competitive startup accelerator.</li></ul> <p><b>Researcher at University of Toronto</b> <i>Sep 2015 – Jan 2019</i></p> <ul style="list-style-type: none"><li>Pioneering contributions to the fields of CO<sub>2</sub> recycling, artificial intelligence for materials discovery, artificial photosynthesis, and hydrogen technologies.</li><li>Brokered funded research projects to oil and gas/ petrochemical corporations such as Total, Suncor, and Dow. More than \$5M in awarded funds and partnerships.</li></ul> <p><b>Research Scientist Toyota Research Institute</b> <i>Jun 2018 – Sep 2018</i></p> <ul style="list-style-type: none"><li>Developed machine learning models and descriptors for accelerated discovery of fuel cell and battery materials for next-generation electric vehicles.</li></ul> <p><b>Visiting Scholar at University of California, Berkeley</b> <i>Mar 2017 – Jun 2017</i></p> <ul style="list-style-type: none"><li>Discovered a record-setting catalyst to convert CO<sub>2</sub> into renewable plastics.</li></ul> <p><b>Research Scientist at IBM TJ Watson Research Center</b> <i>May 2016 – Sep 2016</i></p> <ul style="list-style-type: none"><li>Performed large scale computational simulations on supercomputers for point-of-care biosensing materials.</li></ul>									
<b>Awards</b>	<p>2019 Forbes Top 30 Under 30   2019 GreenBiz Top 30 Under 30   Governor General of Canada Gold Medal   NSERC Canada Graduate Scholar   Massey College Junior Fellow   CIFAR Bio-Inspired Solar Energy Graduate Fellow   2018 Bridge to BCG and McKinsey Insight Participant</p>									