Message from the Director

Ilana Young

This past year has been an amazing year for DiscoverE. We have grown our programs in some really exciting ways and have been able to inspire even more youth in Alberta, the Northwest Territories and northern British Columbia with a love for science, technology, engineering and math (STEM).

Looking back on the past 25 years of DiscoverE, we take huge pride in seeing how a once small, student run program has transformed into one of the biggest STEM programs in western Canada. Our curriculum meets and exceeds Alberta Education Outcomes and finds ways for youth in kindergarten through grade nine to start meeting the 12 Engineering Graduate Attributes.

The two programs we are excited to highlight this year are our in-school clubs and our summer high school pilot program.

We’ve been offering our after-school programs for several years, but in 2018, we took a close look at how we could grow and adapt these to better meet the needs of schools and students. The result was we expanded these eight-week clubs to include a lunch time club, focusing on either STEM or coding. Over the eight weeks, students establish great relationships with our instructors and grow a real passion for STEM. We also grew our offerings from two to three clubs per term to 10 to 12 clubs per term and thanks to our amazing donors, half of these clubs were bursary programs.

This past year we also piloted an amazing new project with Kehewin Cree Nation. Ten high-school students in grades 9 to 12 spent two weeks on campus and an additional three weeks back in the community working on their projects; all for high school credits! We focused on digital design projects and on learning about the services and opportunities for Indigenous students on campus. By the end of the five weeks, students were able to earn at least three high school credits and see what the University of Alberta and the Faculty of Engineering have to offer.

The amazing gains our programs and our students made this past year is because of the donors and partners who make DiscoverE possible. We couldn’t do what we do without you and we look forward to working together to bring the joy of STEM to even more children and youth in 2019.
Mission

Our mission is to have children and youth recognize the value and importance of engineering, science and technology in today’s world and consider the pursuit of related fields a fun, interesting and rewarding option for their future.

If children are exposed to engineering and science at an early age, they are more likely to pursue further studies in these fields. Our programs feature an interactive, hands-on approach to learning. Many students who attended some of the first DiscoverE summer camps are now pursuing post-secondary education and careers in engineering and science, and some have even returned to work at DiscoverE as instructors!
A Year In Review

This year we reached 2,826 youth through our summer camps – 800 more than last year! We have also reached 1,000 more youth through our special events, totalling at 4,186. We have reached roughly 5,270 indigenous youth, nearly doubling our past years reach. This growth has contributed to our total reach of 26,896 youth in 2018/2019.

We went to Fort McMurray and Grande Prairie to run two workshops that were very successful. We also went to Northern British Columbia this year.

New partnerships that we have formed this year means additional funding for years to come. This additional support has enabled us to head into Calgary, Estevan, Fort Saskatchewan and Grande Prairie. This is a very exciting prospect for our teams.
Edmonton Summer Camps

1778 Youth in Attendance
37% Female
7% Indigenous Youth
80 Camps
Workshops

18,464 Youth in Attendance
49% Female
24% Indigenous Youth
10 Months Running
Off-Campus Camps

1048 Youth in Attendance
45% Female
30% Indigenous Youth
58 Camps
4186 Youth in Attendance
63% Female
6% Indigenous Youth
62 Special Events
In-School Clubs

1100 Youth in Attendance
50% Female
6% Indigenous Youth
9 Clubs
Girls Clubs

320 Youth in Attendance
100% Female
13% Indigenous Youth
8 Clubs
Outreach

DiscoverE has increased our outreach this year! We have extended our reach from Northern Alberta and the Northwest Territories to all of Alberta, Northern British Columbia and the Northwest Territories. We also have plans set to head into Southern Saskatchewan in summer 2019. Video conferencing with students in Nunavut is another example of how we have expanded. We have increased or program offerings, including moving from two in-school clubs a term to twelve.

Fun Fact: The University of Alberta reaches about 30,000 students each year; DiscoverE reaches close to 27,000 kids.

At-Risk Youth and Immigrant Families

Our bursaries and in-school programming ensure all students can attend our programs. By increasing in-school clubs we increase those running as bursary programs. These are targeted to inner-city areas that generally have higher populations of immigrant families. We are able to engage these students during two key times of day; lunch and after school. We provide strong mentorship for eight consecutive weeks and build positive relationships with the youth and build their relationship with STEM and the Faculty of Engineering at the University of Alberta.

A Headstart for High School Students

This year we also expanded our in-school clubs into high schools. We engage high school students through our volunteer programs and Junior Instructor program. In both, they gain many soft skills such as leadership, public speaking and problem solving. They get onto campus early and get a behind-the-scenes look at the Faculty of Engineering. Grade 12 students who are successfully accepted into first year Engineering and volunteer for at least seven weeks are also eligible for a $1,500 scholarship.
Inspiring Young Women

In 2017 we reached 49% female participants and this number is holding steady into 2018. We do this by offering girls-only programming that provides strong female mentorship and gets them excited about Science, Technology, Engineering and Math.

Engaging Indigenous Youth

DiscoverE’s outreach in indigenous communities has more than doubled from 2016/2017 to 2017/2018. We are working with urban indigenous groups by continued partnerships with Bent Arrow Traditional Health Society and schools such as Ben Calf Robe.
## Financial Statement

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<th></th>
<th>Budget</th>
<th>Actual</th>
<th>Budget</th>
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<td>April 1, 2018 - March 31, 2019</td>
<td>April 1, 2019 - March 31, 2020</td>
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<tr>
<td><strong>Revenue</strong></td>
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<td>Program Registrations</td>
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<td><strong>Total Revenue</strong></td>
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<td><strong>Expenses</strong></td>
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<td><strong>Total Expenses</strong></td>
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</table>
Blow Their Minds With DiscoverE

With your partnership, we can reach even more future scientists and engineers. Help DiscoverE fuel lifelong passion for STEM and inspire our next generation of problem-solvers.

Help Fuel DiscoverE

780 248 1673
Give2Engineering@ualberta.ca
uab.ca/Give2DE
DiscoverE would like to thank all our partners who supported our programming this past year:

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The Benevity Community Impact Fund

DiscoverE also extends a heartfelt thank you to all of the individual donors who make what we do possible.