



CO-OPERATIVE  
EDUCATION

Faculty of Engineering and Applied Science

# SYNERGIES

THE CO-OP NEWSLETTER

## THE PLACES WE WILL GO!

During the Fall 2017 work term, we saw a rise in students working outside of Canada. Their experiences were unique and interesting, and we want to share! International opportunities for students are extremely valuable and students not only get to experience life in another part of the world, but they acquire skills and learning opportunities that provide useful knowledge transfer opportunities. The Faculty of Engineering and Applied Science has introduced a new funding program called the International Co-operative Education Opportunities Program (ICEOP), and select students have availed of this financial aid to live and work in their respective work term countries successfully. We hope to grow this fund as a sustainable means of creating and retaining international work term opportunities. If you would like more information concerning ICEOP, please contact: [coopeng@mun.ca](mailto:coopeng@mun.ca)

## RENEWABLE ENERGY WORLDWIDE – ARENSIS, UK

CATHERINE FAGAN, WORK TERM 5, ONAE

Various locations around the world call for a solution to unstable grid connection and a way to reduce greenhouse gas production. As a solution to this, Arensis designs and manufactures combined heat and power (CHP) units that run on biowaste. The implementation of the technology reduces the use of fossil fuels and the production of smog while allowing rural areas to have access to electricity and heat. To date over 200 waste fuels have been tested successfully, ranging from hazelnut shells to rhinoceros excrement.



Fig. 1: On-site at Arensis UK  
(submitted by Catherine Fagan)

I completed my fourth work term in Winter 2017 working in the manufacturing department of Arensis, developing manuals for the production workforce. With this knowledge, Arensis was happy to welcome me back in the Fall of 2017. I returned to Liverpool, UK and moved into the technical sales department. As a part of the sales team, I aided client site assessments and facilitated company sales. I have effectively helped Arensis target pallet companies, to use their waste as a source of electricity. My experience

within the renewables sector has been an exciting ride, and I hope to continue to focus on this field wherever my career path leads. For more information concerning Arensis, please click [here](#).

### SPRING WORK TERM:

April 30 – Aug. 17, 2018

Job competition starts:

Jan. 11, 2018

Interviews start:

Jan. 24, 2018

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### WINTER TERM DATES:

Jan. 4–Apr. 27, 2018

**Students are still available  
for the Winter 2018 Work  
Term**

## WORK TERM AWARD WINNERS - SPRING 2017

### DESIREE VAN HEERDEN

[School of Human Kinetics & Recreation, MUN, Work Term 1]  
[PEGNL Connections East Award](#)

### MICHAEL COOPER

[Husky Energy, Work Term 4]  
[PEGNL W.W. Cossitt Award](#)

### MATTHEW LANE

[Syncrude Canada, Work Term 4]  
[Paul S. Batstone Memorial  
Scholarship](#)

*For more information on each award,  
click on the name of the award!*

## ENGINEERING OPEN HOUSE

MARCH 10, 2018: 10 a.m. – 2 p.m.

For more information:

[Click here](#)

## MUN STUDENTS FROM DAY 1

JACQUELINE VINICOMBE, ASSURED FLOW SOLUTIONS, Houston, TX

Since start-up in 2011, [Assured Flow Solutions \(AFS\)](#) has been proud to have MUN co-op students involved in all elements of growing their consultancy business in the upstream/midstream oil and gas industry.



Fig.2: Official Lab Opening  
(submitted by AFS)

Managing Partners, Tony Spratt and Tommy Golczynski have indicated that the MUN Co-op program came highly recommended with the incentive that MUN students graduate with work experience that gives them maturity and confidence that is hard to find from other universities.

Since their first hires, ASF has had a total of 11 placements involving seven students. AFS began with four employees, two of which were MUN students. Now, they've grown to a headcount of 24 and continue to recruit from MUN. I was one of AFS's first students and returned as a permanent employee upon graduation

from process engineering in 2014. When AFS opened their production chemistry lab in Katy, TX in 2015, I was integral in the start-up of the lab by becoming knowledgeable about the new equipment and training the new hires. Now, I am actively building and maintaining relationships with MUN and the NL offshore industry to bring an AFS presence 'back home.'

"The performance of our MUN students (quality work, quick learners, confidence) helped us start strong and has continued to reinforce AFS's positive reputation with our current and future clients." AFS

In 2014, AFS opened an office in Denver, CO to serve the demands of the onshore market. We hired MUN engineering student Victoria Pollard, who joined the team for the Winter 2017 term. She went on to complete a second work term with AFS this past fall in our lab, gaining valuable hands-on experience and has been offered a permanent position with us.

"Our objective is to bridge traditional flow assurance engineering work with production chemistry," said the Managing Partners. "We have found that MUN students are willing and very capable of adapting to a laboratory environment and have excelled in both settings. We look forward to the coming years as we continue to hire MUN students and see how AFS and the students can complement and grow with one another."

## NEW ZEALAND BOUND

SHAMUS BROWN, WORK TERM 3, Mechanical



Fig.3: Roys Peak, NZ  
(submitted by Shamus Brown)

For my third work term, I was fortunate enough to work at the National Institute of Water and Atmospheric Research (NIWA) based out of Wellington, New Zealand. During my time there, I was working primarily with environmental fluid mechanics. I was able to achieve the dream work-life balance of satisfaction in my own work while going on amazing adventures whenever I had time away from the office.

## WHAT STUDENTS ARE SAYING!

We heard from students on their international work terms and this is what they have to say!

"Working with Infinera Corporation has furthered the development of both our education and careers. It has given us the experience of working in two major technology centers; the San Francisco Bay Area, and Stockholm, Sweden. Working with a company that is culturally diverse and international in the telecommunications industry has highlighted the endless learning possibilities present with an engineering degree."

Evan Tilley & James MacDonald, Work Term 6, Mechanical, Infinera, California

"Having the opportunity to work with Meinhardt PTE Ltd. was an experience of a lifetime, both technically and culturally. As a member of the urban development team, we focused on designing sustainable transportation systems for major towns in Singapore. This international work experience will allow me to bring a unique perspective to future work term opportunities and ultimately a future employer."

Justin Elliott, Work Term 2, Civil, Meinhardt PTE Ltd. Singapore

"Working for such a world renowned company like Siemens Healthineers in Erlangen, Germany has exposed me to a flood of new experiences and opportunities. I have extended my professional portfolio, while also learning a vast amount about myself, my future goals, and the medical industry."

Gregory Coates, Work Term 2, Mechanical, Siemens, Germany

## RECOGNITION EVENT

MARCH 22, 2018

Stay tuned for news concerning our recognition event for our new Co-op Director's Awards!