# THE **EDGE** OF ACHIEVEMENT





AT RIGHT: Francis Zwiers, director of UVic's Pacific Climate Impacts Consortium (PCIC), enables strategies for better responses to climate change. PCIC science helps decision-makers mitigate risks from sea level rise (portrayed here by the bluestripes painted under Vancouver's Cambie Bridge) and events like wildfires, floods and droughts.



# Tomorrow's leaders are emerging at the edge

In 2018, the University of Victoria adopted a new strategic framework. It's a map for future directions and change that builds on wellestablished strengths at UVic and challenges us to achieve even more in the years ahead.

The strategic framework will help us achieve our vision to be the Canadian research university that best integrates outstanding scholarship, engaged learning and real-life involvement to contribute to a better future for people and the planet.

The six high-level priorities of the framework also recognize that our values and our collective efforts put us at the forefront of two global challenges—sustainability and reconciliation—and that our achievements have been possible because of our drive to engage and partner with communities, researchers, governments, industry and funders around the world and in our own region.

These partnerships have been a key feature of our successes, as you'll see throughout this year's publication.

Jamie Cassels, QC President and Vice-Chancellor

The University of Victoria acknowledges with respect the Lekwungen-speaking peoples on whose traditional territory the university stands and the Songhees, Esquimalt and wsáneć peoples whose historical relationships with the land continue to this day.

PHOTO: New student orientation, Sept. 2018.



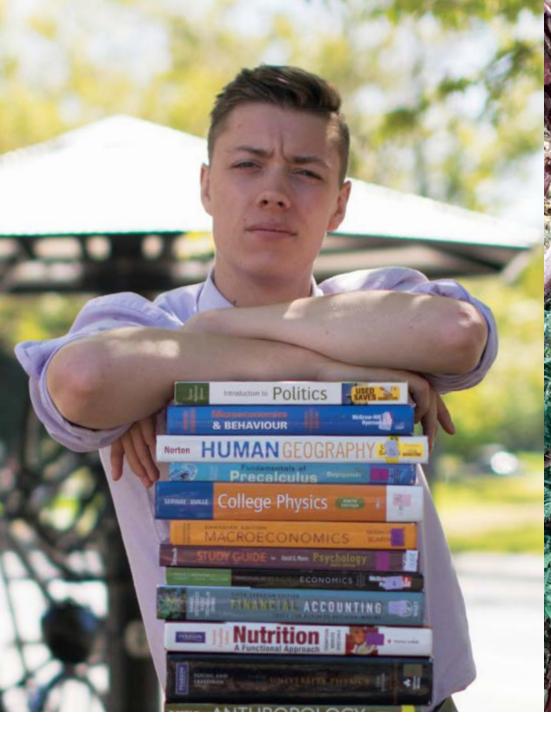
## AN EXTRAORDINARY ACADEMIC ENVIRONMENT

People and place provide the foundation upon which we provide an extraordinary environment for the creation, dissemination and mobilization of knowledge.

#### A milestone in music

UVic's School of Music celebrated its 50 years at a gala anniversary concert with the UVic Chorus and Orchestra—the culmination of five decades of academic expansion, faculty excellence, inspiring teaching, alumni achievement and dedicated community outreach.







#### A first in Canada for student leadership

For the past four years, at least one UVic student has been among the 10 national recipients of the 3M National Student Fellowship, presented by the Society for Teaching and Learning in Higher Education.
But 2018 was the first time that three of the awards have gone to students from a single school.

Pictured above, UVic students **Maxwell Nicholson** (economics), **Michael Graeme** (anthropology and environmental studies) and **Cara Samuel** (psychology) were recipients of 3M fellowships—Canada's top leadership award for students.

UVIC IS A
DESTINATION UNIVERSITY
with students from 100+ countries

75% OF ALL
STUDENTS
ARRIVE FROM
OUTSIDE VICTORIA



#### **Student housing expansion**

With the support of the provincial government, UVic is embarking on an ambitious new \$201-million campus housing project, providing accommodation for an additional 620 students. "Students have enough stress in their lives without having to worry about finding a place to live they can afford," BC Premier John Horgan told a crowd of about 200 at the announcement. "By increasing housing stock specifically for students, we're also taking the pressure off local rental markets, giving more options to other renters." Construction is planned over four years, with the first building opening in 2022.

8 UVIC ANNUAL REVIEW
EXTRAORDINARY ACADEMIC ENVIRONMENT 9



## RESEARCH EXCELLENCE AND IMPACT

UVic's outstanding research advances human knowledge, improves and enriches lives, tackles global challenges and promotes the sustainability of the planet.

#### A vaccine candidate for syphilis

Microbiologist **Caroline Cameron** has been awarded a patent for a potential vaccine candidate against syphilis. The highly infectious nature of the disease makes it an enduring health issue. Worldwide, there are an estimated 11 million cases of syphilis each year, and rates of the disease in BC are at their highest in 30 years.



**RANKED AMONG THE** 

## **TOP 200**

## OF THE WORLD'S UNIVERSITIES

for leadership in earth and marine sciences, English language and literature, and geography (2018 QS SUBJECT RANKINGS)

## UVIC IS RANKED FIRST IN CANADA

for scientific impact in math and computer science

(2018 LEIDEN RANKINGS)

ONE OF CANADA'S

LARGEST

CONCENTRATIONS

of ocean and climate
researchers



#### Ocean observatory completes installation of earthquake early warning sensors, begins trial of neutrino sensors

UVic's Ocean Networks Canada (ONC) has installed the final set of underwater earthquake early warning sensors off the west coast of Canada that will be part of an early alert system. The system will enable a warning of 20 seconds to two minutes in the event of a significant earthquake—time enough to take critical, life-saving actions before the shaking starts.

As part of its 2018 Wiring the Abyss expedition, ONC also installed specialized equipment at its deepest site in the northeast Pacific Ocean to assess the location's suitability for a large-scale observatory for neutrinos—difficult to detect "ghost particles" that could help answer fundamental questions in physics.

# CONSISTENTLY THE TOP UNIVERSITY in North America for published research based on INTERNATIONAL COLLABORATIONS (2011-18 LEIDEN RANKINGS)

12 UVIC ANNUAL REVIEW



## DYNAMIC LEARNING

UVic's focus on teaching excellence, supported by research-enriched and experiential learning, ensures an exceptional student experience that equips our students for personal success and contributions as global citizens.

#### A different kind of archival immersion

Dynamic learning and ocean sciences span every faculty at UVic. Students in historian **Jason Colby's** course on whales, including **Tim Cunningham** (at left, lifting a juvenile orca skull), visited the whale specimen collections of the Royal BC Museum this fall.



## UVIC OFFERS HANDS-ON LEARNING OPPORTUNITIES

through co-op, field schools, research, internships and practica in

**755** COURSES

ONE OF CANADA'S

## LARGEST AND OLDEST

**CO-OP PROGRAMS** 

UVic has the most extensive co-op program in the country. Students in 51 academic programs—including Canada's only co-op in law—alternate academic terms with paid, relevant experience. More than 40 per cent of eligible students take part in co-op.

### **NEARLY 3 IN 4**

UVic co-op students receive an OFFER OF EMPLOYMENT

before they graduate (74%).

## UVIC OFFERS THE WORLD'S ONLY

Indigenous co-op education program, providing students with culturally relevant work experience throughout their studies.





## FOSTERING RESPECT AND RECONCILIATION

UVic's goal is to be a global leader in creating better opportunities for Indigenous students, entering respectful educational and research partnerships with Indigenous communities, and advancing respect, reconciliation and mutual understanding.

#### At the launch of the world's first Indigenous law program

Indigenous law student **Colby Lizotte**, a member of the Métis Nation of Alberta, addressed Elders, scholars, national and provincial leaders gathered at First Peoples House for the launch of the new Indigenous law program. UVic's joint degree program in Canadian Common Law and Indigenous Legal Orders is the first of its kind in the world. Graduates will be able to pursue a career in common law enhanced with a deep understanding of Indigenous legal knowledge.



### **UVIC IS HOME TO CANADA'S FIRST INDIGENOUS NATIONHOOD GRADUATE PROGRAM**

THE ABORIGINAL CANADIAN **ENTREPRENEURS PROGRAM** WAS HONORED AS

#### **ONE OF THE WORLD'S BEST**

community-businesseducation collaborations

(International Business Education Partnership Network)

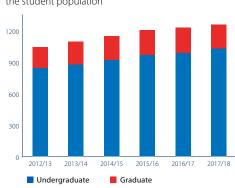
#### **#1 CANADIAN COMPREHENSIVE UNIVERSITY**

for promoting Indigenous visibility

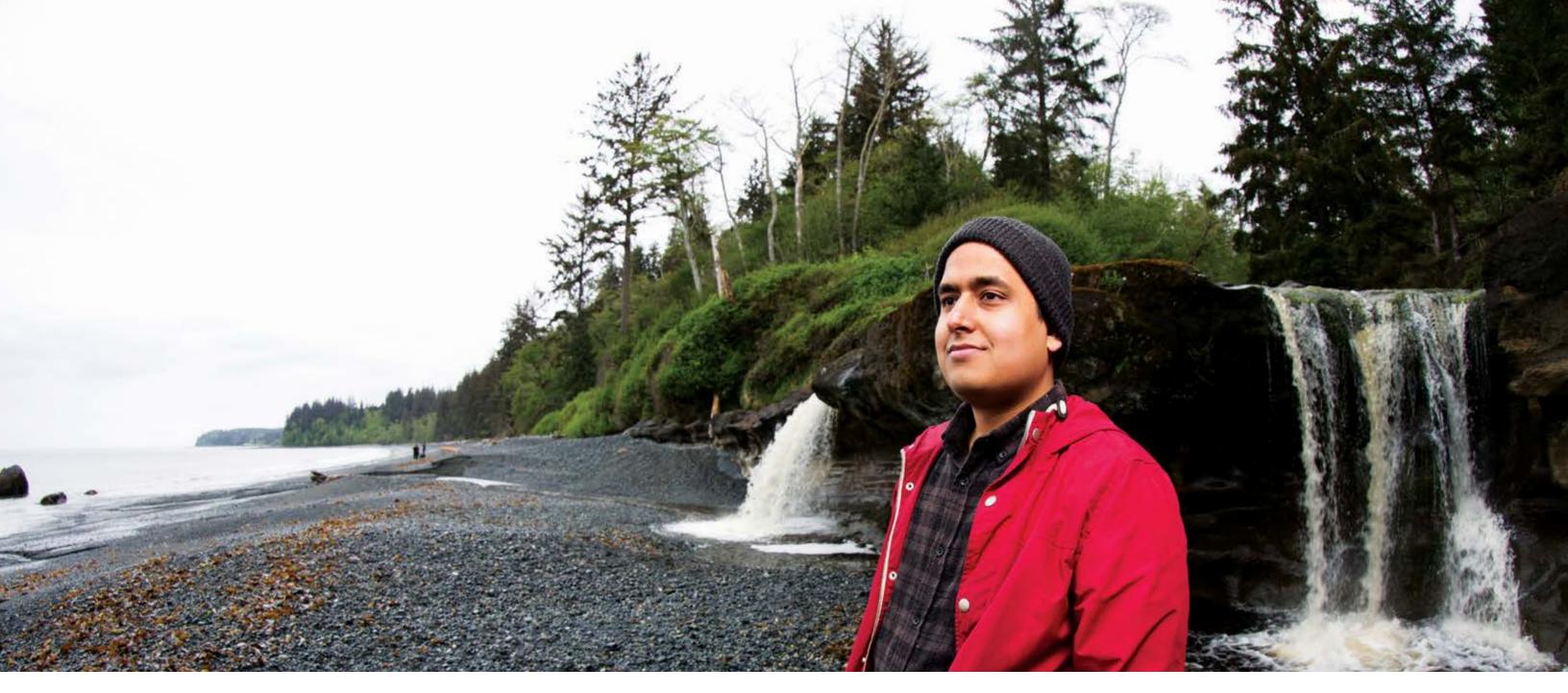
(2018 MACLEAN'S RANKINGS)

#### **TRANSFORMING INDIGENOUS EDUCATION**

In 2017/18, Indigenous students made up 5.7% of the student population







## SUSTAINABLE FUTURES

UVic has become a global leader in social, environmental and institutional sustainability through research, partnerships and campus policies.

#### Storing energy by mixing salt and fresh water

Places where saltwater and freshwater mix could well become natural batteries for electricity— an innovative complement to intermittent energy sources such as solar, wind and wave power. Entrepreneur and mechanical engineer **Devesh Bharadwaj** was still a UVic undergraduate when he founded Pani Energy Inc. with the support of UVic's business incubator, Coast Capital Savings Innovation Centre, to develop technologies for fresh water and clean energy.



## OCEAN NETWORKS CANADA **LEADS THE WORLD**

in ocean observatory science and technology through its presence in all three of Canada's oceans.

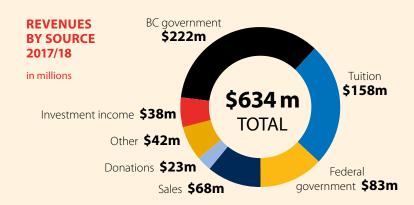
# UVIC HOSTS AND LEADS THE **PACIFIC INSTITUTE FOR CLIMATE SOLUTIONS**

Actionable research on the social, economic and physical impacts of proposed solutions to climate change

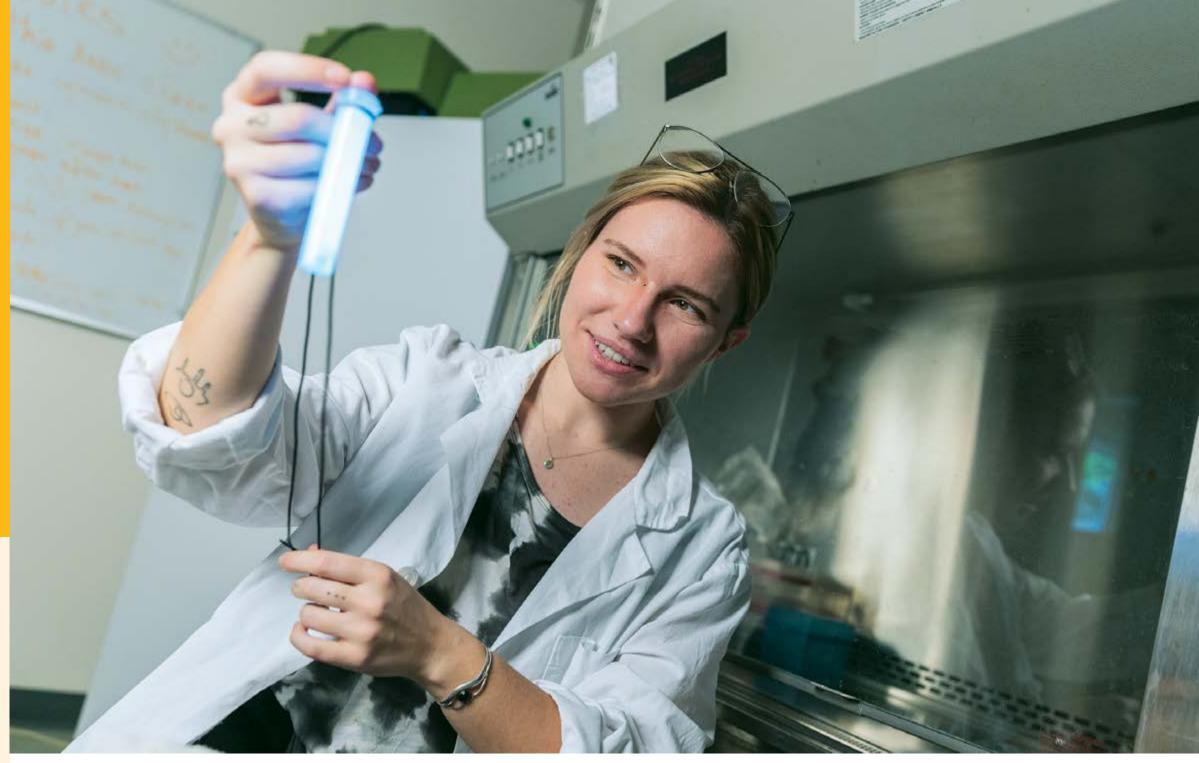
## **A TOP 100** GREEN EMPLOYER, NINTH IN NORTH AMERICA

in the Sustainability Tracking, Assessment & Rating System (STARS) for doctoral institutions

#### SOUND FINANCING FOR OUR UNIVERSITY







#### A glowing solution to festival litter

UVic undergraduate **Paige Whitehead** saw opportunity where others merely saw rubbish: in discarded glow sticks at music festivals. Whitehead developed a prototype light wand lit by bioluminescence, inside a seaweed-based casing that not only dissolves harmlessly wherever it's discarded, but actually improves the soil. Whitehead's fledgling company, Nyoka Design, is getting support from UVic's Coast Capital Savings Innovation Centre, an on-campus business incubator.

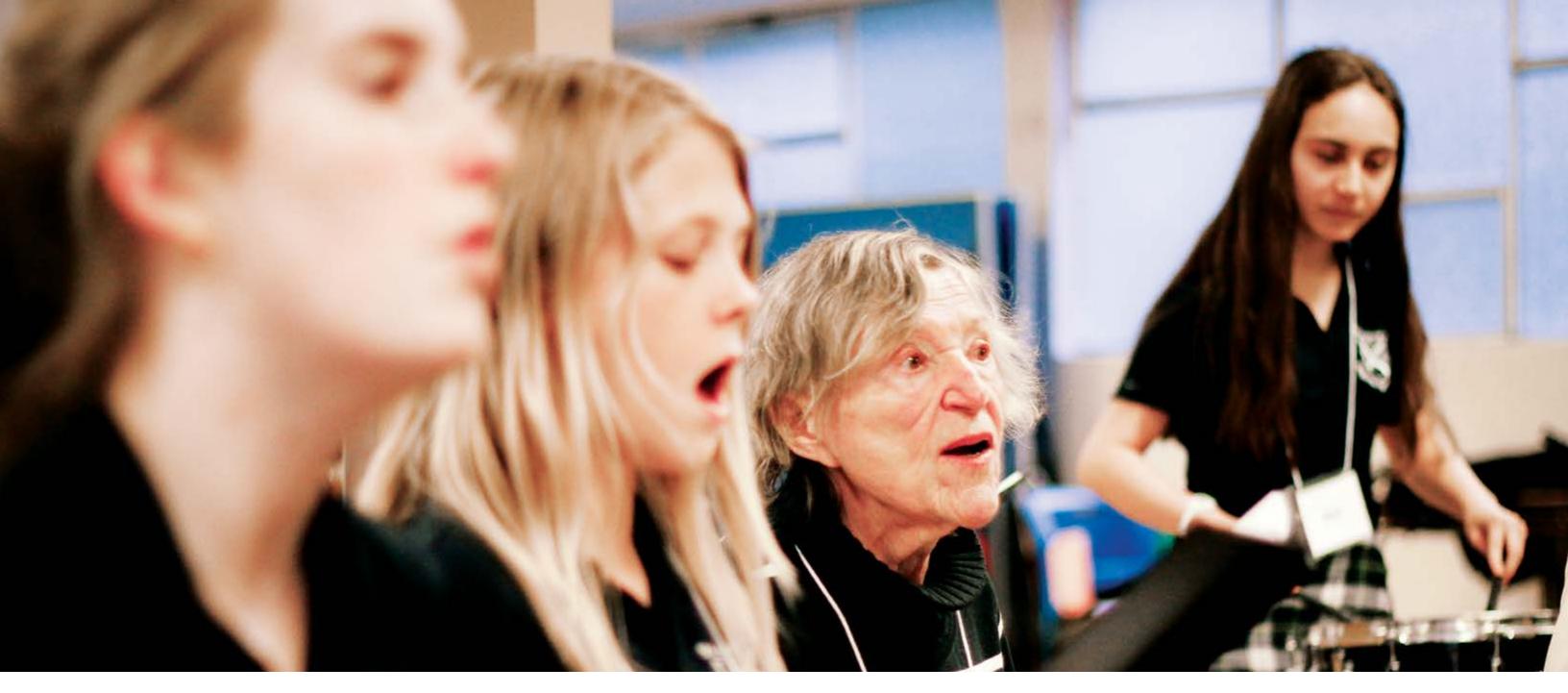


#### **Gustavson achieves carbon neutrality for air travel**

As a way to offset the frequent airplane travel that comes with being an internationally focused business school, the Peter B. Gustavson School of Business at UVic is going carbon neutral—believed to be the first business school in the world to do so.

Gustavson is investing in three carbon offset projects that will improve living conditions in communities in Uganda, Honduras and Thailand, and two environmental projects in BC.

24 UVIC ANNUAL REVIEW
SUSTAINABLE FUTURES 25



## ENGAGING LOCALLY AND GLOBALLY

Working together for mutual benefit with community, private sector, government and other organizations, UVic is fostering connections and co-creating positive change.

#### Singing to fight the stigma and social isolation of dementia

Voices in Motion is a two-year UVic research study led by nursing professor **Debra Sheets** investigating how participation in a multi-generational choir impacts quality of life for persons with dementia, caregiver well-being and how it reduces some of the stigma surrounding memory loss.



Global partnerships that support academic and research connections span

# 300 INSTITUTIONSand organizations in70 COUNTRIES



## **GLOBAL PARTNERS**

INCLUDE TOP 100 UNIVERSITIES SUCH AS:

- Peking University
- University of Washington
- University of Tokyo
- Utrecht University
- National University of Singapore

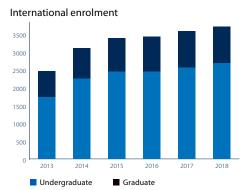
ALUMNI AROUND THE WORLD

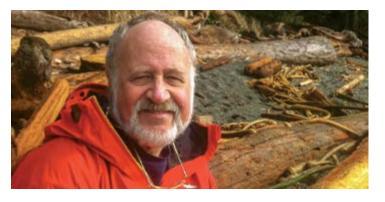
128,726 LIVING UVIC ALUMNI
ARE IN 131 COUNTRIES
AROUND THE WORLD FROM
ARGENTINA TO ZIMBABWE

UVic's Master of Global Business program offers graduates the

OPTION OF LIVING, WORKING
AND STUDYING IN
4 DIFFERENT COUNTRIES







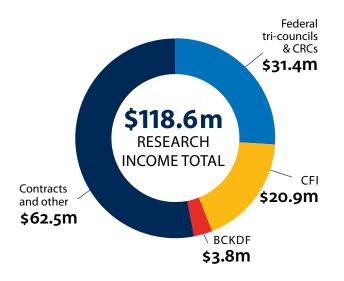
<u>Higher education frameworks for achieving</u> <u>UN sustainable development goals</u>

UVic's **Budd Hall** (at left) and Rajesh Tandon—in their shared role as UNESCO Chairs in Community Based Research and Social Responsibility In Higher Education—released a big tent declaration on higher education and the UN's sustainable development goals in co-operation with the International Association of Universities and the Global University Network for Innovation in Kuala Lumpur in November.

28 UVIC ANNUAL REVIEW

#### A CANADIAN RESEARCH LEADER

Total research income (in millions) 2017/18



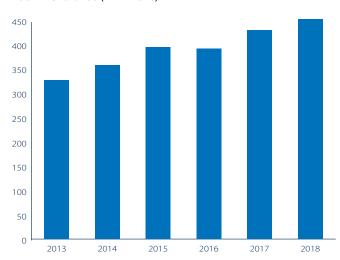
#### **PATHS TO EMPLOYMENT**

Employment rates by degree area—two years after graduation

UVIC GRADUATES BY FACULTY	EMPLOYMENT RATE	AVERAGE ANNUAL INCOME
BUSINESS	91%	\$62,334
EDUCATION	86%	\$48,177
ENGINEERING	92%	\$75,833
FINE ARTS	88%	\$45,042
HUMAN & SOC. DEV.	96%	\$64,858
HUMANITIES	85%	\$41,774
LAW	100%	\$84,633
SCIENCE	70%	\$52,264
SOCIAL SCIENCES	86%	\$48,156
UVIC TOTAL	87%	\$57,647

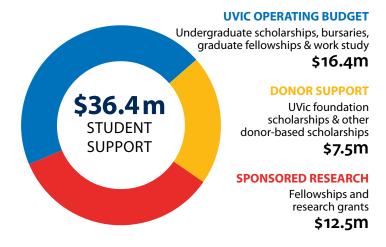
#### **INVESTING IN THE FUTURE**

Endowment funds (in millions)



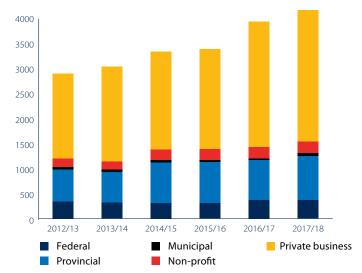
#### **SUPPORTING STUDENT SUCCESS**

Sources of student financial support (in millions) 2017/18



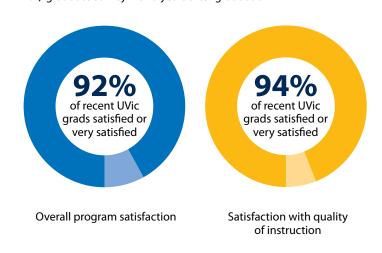
#### **BUILDING SKILLS AND CAREERS**

 $\hbox{Co-op and community service learning placements by employer type} \\$ 



#### HIGH LEVELS OF SATISFACTION

2017 graduate survey—two years after graduation



## **UVIC FACTS & FIGURES**

STUDENTS (UNDERGRADUATE & GRADUATE)



**900** FULL-TIME FACULTY MEMBERS



PATENTS FILED TO DATE



,065 INVENTION DISCLOSURES TO DATE



169 START-UP COMPANIES TO DATE



3.7
BILLION

UVIC ANNUAL ECONOMIC IMPACT



**115**<sup>™</sup>

IN THE WORLD AND THE TOP
UNIVERSITY IN NORTH AMERICA,
FOR INTERNATIONAL RESEARCH

COLLABORATION ACROSS ALL SCIENCES (Leiden)

## O IN TOP GLOBAL RANKING

The 2019 **QS World University Rankings by Subject** place UVic in the global top 300 for research in:

- Computer science
- Earth & marine sciences
- Education
- English language & literature
- Environmental sciences
- Law
- Mathematics
- Philosophy
- Physics & astronomy
- Psychology

The 2018 **Leiden University Rankings** place UVic **#181** worldwide for research impact across all sciences. UVic is also recognized as a global research leader in the following areas:



#490

IN MATH & COMPUTER SCIENCE



#163

IN BIOMEDICAL & HEALTH SCIENCES



#201

IN SOCIAL SCIENCES & HUMANITIES



#219

N LIFE & EARTH SCIENCES

A digital edition of this publication, along with further information about each individual story, can be found online at <u>uvic.ca/annualreview</u>.

In keeping with the university's committment to sustainability, the UVic Annual Review is printed on FSC-certified paper containing 10 per cent post-consumer waste.

#### PROJECT MANAGEMENT

Marc Christensen University Communications + Marketing Divison of External Relations

#### DESIGN AND PRODUCTION Marc Christensen

viarc Christensen

#### PHOTOGRAPHY

UVic Photo Services
Suzanne Ahearne
Darlene Clover
Beth Doman
Kristy Farkas
First Peoples' Cultural Council
Chorong Kim
Adrian Lam / Times Colonist
Jake Sherman
Mitch Spendelow
Inanna Sokil
K. Tietje

#### PRINTING

**UVic Printing Services** 

