"In everything we do at the University of Victoria, our choices and actions will be guided by the goal of making the world a better place through our mission of education and research—to relentlessly pursue the goal of contributing to the lives of our students, our community and the nation through the advancement of knowledge."

— UVic President Jamie Cassels’ installation address
2013-14 MILESTONES

Actually, it is rocket science. Three UVic mechanical engineering students with a passion for aerospace took first prize in Silicon Valley non-profit Open Space University’s international DIY rocket competition. Students Michael Pearson, Simon Moffatt and Harry Evans designed a 3D-printable rocket engine to put small-payload supplies in orbit—and won first place in the international competition, competing against novices, school-based teams and professional engineers alike.

Social work director’s appointment a national milestone. UVic marked a major milestone in 2013 with the appointment of Kundoqk Dr. Jacquie Green (Haisla), as the first Indigenous director of School of Social Work and the first Indigenous director of any mainstream post-secondary social-work program in Canada. Green was a UVic undergraduate student in the mid-1990s and remembers only three Indigenous students in the overall PhD stream at the time. "I know what it feels like," she says. "It is so important to have our people reflected in the leadership."

Passion for public health propels newest Rhodes Scholar. Biochemistry student Dylan Collins left for Britain’s famed University of Oxford this fall as a Rhodes Scholar. "I’m very excited," says Collins, who hails from Tlèll, a tiny village on the northeast coast of Haida Gwaii. "I fell into this passion for public health," he says. UVic has produced seven Rhodes winners in the last 12 years. Full story and video about Collins: bit.ly/uvic-collins

Making the world’s biggest button blanket. It’s said that many hands make light work, but it was more a case of many hands making the art work when it came to the creation and raising of the world’s largest button blanket. Witnessed by a standing-room-only crowd at First Peoples House, the Big Button Blanket received its inaugural performance during the 2014 Provost’s Diversity Research Forum. Created in collaboration with Tahltan Nation artist Peter Morin and history in art professor Carolyn Butler Palmer, as well as their students and local Indigenous button blanket makers over the Fall 2013 semester, the six-metre by six-metre, 4,000-button blanket offered the campus and the community an enormous opportunity to start new conversations about Indigenous art forms and the traditions surrounding them.

National award for bullying prevention program. Bonnie Leadbeater, UVic psychologist and co-creator of the anti-bullying program WITS (Walk Away, Ignore, Talk it Out, Seek Help) was presented with the Canadian Institutes of Health Research Partnership Award by the Governor General of Canada in recognition of her leadership of the programs. For 15 years, Leadbeater has worked tirelessly with community partners, police officers, school staff and administrators, and parents to protect children from peer violence and victimization. The award acknowledges the true partnership that exists between teachers, students, law enforcement and parents who want to change the culture within a community.

"Big data" confirms that UVic is a powerhouse of international research collaboration. The 2014 Leiden University rankings, based on scientific publication in more than 10,000 key journals from 2009-2012, put UVic ahead of all other Canadian universities in the proportion of internationally co-authored research. UVic also retains its place in the top one per cent of universities in the world and among the top-ranked in Canada for overall scientific impact.

RANKINGS

Ranked among the world’s best universities. The 2014 Times Higher Education (THE) World University Rankings place UVic on its elite Top 200 list, among the top one per cent of universities around the world. Ranked at #173 globally, UVic has been the top-ranked university in Canada without a medical school since 2010. Only eight Canadian universities were ranked in the Top 200.

2014 QS subject rankings highlight growing international reputation. UVic ranks among the top 200 institutions worldwide in six key academic fields, according to the 2014 QS World University Rankings by Subject: English language and literature, earth and marine sciences, geography, law, physics and astronomy, and psychology.

The QS rankings also suggest that UVic’s rising international reputation stems from extraordinary programs across the institution. The Department of English ranked in the top 100. In total, UVic was ranked for world-class performance in 22 of 30 subject areas.
L-R: Vikes Athletics and Recreation Director Clint Hamilton and CanAssist Director Robin Syme are eager to see CARSA complete.
HEALTHY, ACTIVE LEARNING

In pursuit of excellence, discovery and diversity—this is CARSA.

UVic’s new Centre for Athletics, Recreation and Special Abilities (CARSA), which opens its doors in 2015, will be a world-leading teaching and research facility, as well as the university’s first major athletics and recreation structure in more than 30 years.

“This project will ensure that our students have access to enhanced active healthy living programs and high-quality competitive training and performance space,” says Vikes Athletics and Recreation Director Clint Hamilton. “CARSA will further stand as a testament to the achievements and success of our athletes—in venues like the Olympics and Paralympics, and well beyond the playing fields.”

The new gymnasium will seat more than 2,000 spectators. The centre will also boast fitness and weight-training space; squash and racquetball courts; a rowing centre; team rooms and a dedicated varsity training room; dance space and a yoga studio; a sports injury clinic; and an indoor fieldhouse. People can also belt up and “belay on” to enjoy a 16-metre climbing tower.

CanAssist, the unique organization at UVic dedicated to helping people with disabilities improve their overall quality of life and independence in daily living, will be a cornerstone for the complex—housing new offices, labs and a machine shop for the program. Since 1999, CanAssist has given thousands of students from virtually every discipline opportunities to engage with the program’s vision and work through co-op and work-study placements and coursework-related academic projects.

“We’re thrilled to be part of the new facility,” says CanAssist Executive Director Robin Syme. “The centre was specially designed to provide increased accessibility for CanAssist clients with disabilities. As well, being located just inside the front door means we’ll be in a terrific position to engage even more students and faculty.”

Once CARSA opens, the programs and faculty of UVic’s School of Exercise Science, Physical and Health Education will be brought together under one roof in newly vacated space in the McKinnon Building, right next to CARSA—a key benefit for hands-on programs, such as kinesiology students customizing client fitness routines.

Dr. E. Paul Zehr, director of UVic’s Centre for Biomedical Research and the Rehabilitation Neuroscience Lab and author of *Becoming Batman* and *Inventing Iron Man*, believes “the importance of CARSA as a symbol for unlimited and inclusive achievement extends well beyond the physical building itself. The facility and the community it engenders will be the nexus for the pursuit of excellence for generations to come.”

CARSA is targeted to achieve the LEED gold standard and its completion is scheduled for spring 2015. Join an historic team effort.

Help us raise a landmark. [www.uvic.ca/carsa](http://www.uvic.ca/carsa)
Chemical oceanographer Jay Cullen is leading a new network of scientists in Canada and the US, health experts and NGOs—as well as hundreds of citizen scientists along the BC coast—to monitor low levels of ocean-borne radioactivity in the wake of the 2011 Fukushima nuclear disaster.
FUTURE-FOCUSED OCEAN RESEARCH

Transformative technologies have put Canadian marine researchers and their students in the lead.

UVic is recognized as a global leader for its pioneering Ocean Networks Canada (ONC) observatory, transforming ocean research and a cornerstone of Canada’s global leadership in ocean-observing technology. Today, our hub of ocean and climate research continues to advance the horizons of these fields—from pole to pole, across our blue planet.

New observatory capacities. A new Smart Oceans BC system will extend ONC’s capacity, delivering science and information for responsible ocean management and sustainable ocean use. Smart Oceans BC will include a series of small-scale underwater observatories and high-frequency radar and automated vessel information systems along the BC coast to monitor ocean conditions, help predict tsunamis and earthquakes, and provide science-based information for response to offshore accidents and natural disasters.

Airborne oxygen, courtesy of the ocean. UVic biological oceanographer Dr. Diana Varela is studying climate change impacts on phytoplankton, which form the basis of the marine food chain. Phytoplankton are essential for healthy fisheries, and they have an impact on our lives that goes far beyond our dinner plates, producing about half of the oxygen we breathe. They also exert a global influence on climate by removing carbon dioxide—one of the main culprits in global warming—from the atmosphere. “Understanding the cycling of the nutrient elements that phytoplankton need is a key piece in the climate puzzle,” says Varela.

Varela’s work on international ship-based research expeditions in the Arctic, and in Antarctica working with Argentinian scientists, measures changes in phytoplankton productivity and nutrient levels as the ocean warms and sea ice decreases.

Is that a 14,000-year-old fishing weir? Using some of the newest technologies in underwater archaeology, two UVic researchers may have discovered one of the oldest finds in Canada. Archaeologist Quentin Mackie and mechanical engineer Alison Proctor teamed up to explore the seafloor off the southern end of Haida Gwaii, searching for evidence of ancient coastal civilizations submerged when sea levels rose at the end of the last ice age.

Deploying the mechanical engineering department’s Bluefin AUV, the team found what may be images of stone fish weirs, a simple and ancient technology used around the world to catch migrating fish in rivers.

“Without the AUV this discovery would have been much more difficult,” says Proctor, who also used the AUV in 2012 in the search for the Franklin shipwrecks. “AUV-mounted sonar collects crystal-clear imagery, which is especially important when looking for small features in the sonar record.” If the find is confirmed it will be the oldest known fish weir in the world.
Engineering grad student Ana Zehtabi-Oskuie developed a new technique to better isolate and study individual protein molecules and nanoscale interactions using optical trapping—a method pioneered in 2009 at UVic. Her breakthrough makes it possible to view and manipulate how a protein binds with a virus. This research has implications well beyond health care, and has already attracted the interest of industry partners in optics and pharmaceuticals.
PUTTING STUDENTS AT THE FOREFRONT OF DISCOVERY

Students and faculty are laying the foundations for tomorrow through research and the experience-enriched learning environment on campus.

The student experience at UVic benefits from a campus-wide immersion in research, scholarship and innovation. As one of Canada’s premier research-intensive universities, UVic researchers are well known for innovation and discovery, and for creating new knowledge to enhance the social, cultural and economic well-being of people in Canada and around the world. We attract world-class faculty and graduate student researchers who share their expertise across faculties, in classrooms and with the wider community—building a research-enriched learning environment that enlivens our campus.

Students have the opportunity to learn from professors who are leaders in their fields, bringing their own research into the classroom and encouraging their students to be active participants in research projects. In this research-rich environment, students learn the skills and analytical thinking that prepare them for tomorrow’s careers as knowledge and technology leaders.

A growing array of research opportunities for undergraduates has widened access to what may be the best learning experience of all: immersion in a complex problem or question, with faculty support. Established in 2009, the Jamie Cassels Undergraduate Research Awards have become a signature feature that spans the campus, providing more than a hundred exceptional undergraduate students from every faculty with an opportunity to engage in research that enhances their learning experience, trains them to think creatively in the face of obstacles, and prepares them to take on the challenges of the future.

Our knowledge doesn’t stop at campus boundaries. Every day, UVic ideas and innovations reach thousands of people regardless of whether they have ever set foot in a lab or classroom. And by developing one of Canada’s largest co-operative education programs, UVic is ensuring that thousands of students get hands-on employment opportunities in their fields each year, prior to graduation—opportunities that benefit hundreds of co-op employers as well as our students.

UVic’s local and global partnerships—spanning communities and in public and private sectors—also ensure that university knowledge responds to our changing world. From community innovators and high-tech developers to green technologists, UVic puts an engaged community of scholars and students at the very forefront of discovery.

Sociology graduate student Renee O’Leary is conducting an objective review of scientific studies on e-cigarettes with UVic’s Centre for Addictions Research (CARBC).

Tim Personn, a PhD candidate in English, ranked first among all social sciences and humanities recipients of the 2013 Vanier Canada Graduate Scholarships for work on compassion in the contemporary English novel.

The newly expanded Innovation Centre for Entrepreneurs, housed at the Gustavson School of Business, helped recent grads Rebecca Kosh and Kim Cope launch Early Entrepreneurs, an elementary school program to teach students about entrepreneurship and global awareness.
BC Employment Rates By Education

BACHELOR DEGREE
94%

APPRENTICESHIP
92%

DIPLOMA AND CERTIFICATE
90%

HIGH SCHOOL OR LESS
88%

Paths to Employment
Post-graduation employment rates by degree area

<table>
<thead>
<tr>
<th>UVIC GRADUATES BY FACULTY</th>
<th>EMPLOYMENT RATE AFTER TWO YEARS</th>
<th>EMPLOYMENT RATE AFTER FIVE YEARS</th>
<th>JOB REQUIRES POST-SEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINEERING</td>
<td>93%</td>
<td>95%</td>
<td>99%</td>
</tr>
<tr>
<td>BUSINESS</td>
<td>97%</td>
<td>92%</td>
<td>93%</td>
</tr>
<tr>
<td>HUMAN &amp; SOCIAL DEV.</td>
<td>98%</td>
<td>98%</td>
<td>95%</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>88%</td>
<td>93%</td>
<td>93%</td>
</tr>
<tr>
<td>SOCIAL SCIENCES</td>
<td>89%</td>
<td>95%</td>
<td>93%</td>
</tr>
<tr>
<td>LAW</td>
<td>91%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>HUMANITIES</td>
<td>88%</td>
<td>94%</td>
<td>93%</td>
</tr>
<tr>
<td>EDUCATION</td>
<td>96%</td>
<td>95%</td>
<td>99%</td>
</tr>
<tr>
<td>FINE ARTS</td>
<td>90%</td>
<td>100%</td>
<td>86%</td>
</tr>
<tr>
<td>UVIC OVERALL</td>
<td>94%</td>
<td>95%</td>
<td>95%</td>
</tr>
</tbody>
</table>

A Canadian research leader
External research grants and contracts

Fluctuation between years is in part due to the timing of CFI/BCKDF disbursements.
Beginning in 2003-04, research totals include the indirect costs of conducting research, in compliance with CAUBO accounting standards.

Source: Research Administration

High Levels of Overall Program Satisfaction
2013 BC Baccalaureate Graduate Survey — 2 years out

Program Satisfaction: 93%
Quality of Instruction: 95%

Transforming Indigenous education
Enrollment of Indigenous students

Sources of data: University of Victoria Student Information Systems and Ministry of Education K-12 database and Student Transitions Project
Revenues by source 2013/14
[Fund accounting basis. In millions.]

- Federal government $65m [12%]
- Tuition $132m [24%]
- Federal government $65m [12%]
- Ancillary funds $44m [8%]
- Investment income $50m [9%]
- Donations $20m [4%]
- Sales $61m [11%]
- Sponsored research $104m [19%]
- Specific-purpose funds $24m [5%]
- Revenue total = $554 million

Expenditures by fund 2013/14
[Fund accounting basis. In millions.]

- General operating funds $322m [60%]
- Ancillary funds $44m [8%]
- Capital funds $44m [8%]
- Sponsored research $104m [19%]
- Specific-purpose funds $24m [5%]
- Expenditure total = $538 million

UVIC FACTS AND FIGURES:

Student enrolment (2013/14): 20,813 (including 3,406 graduate students); 55% female; 74% of undergraduates come from outside Greater Victoria.

Faculty and staff (March 2014): 4,606 employees, including 886 faculty (43% female, 57% male), 530 sessional instructors, 955 specialist/instructional staff, 2,246 administrative, professional and support staff.

Alumni (September 2014): 116,655 alumni by degree, certificate or diploma. Among 94,399 living, contactable alumni, more than 78% live in British Columbia and 5,379 live in 131 other countries. More than 32,000 live in Greater Victoria.

Alumni (September 2014): 116,655 alumni by degree, certificate or diploma. Among 94,399 living, contactable alumni, more than 78% live in British Columbia and 5,379 live in 131 other countries. More than 32,000 live in Greater Victoria.

Endowment (August 2014): $374 million

A leader in co-operative education. UVic has one of Canada’s largest university co-operative education programs, integrating academic studies with relevant paid work experience in more than 40 academic areas. Each year, businesses and organizations across the globe hire UVic students to complete nearly 3,000 co-op work terms through UVic’s cooperative education programs. The average co-op salary was $2,913 per month in 2013/14.

Driving Canadian prosperity. UVic is responsible for $3.2 billion in annual economic activity, including direct and indirect expenditures such as salaries and benefits, student and visitor spending, taxes, spin-off companies, patents and licenses, and the effects of an educated workforce. The biggest drivers of UVic’s economic influence are the effect university degrees have on graduates’ earning power, which pushes approximately $1.27 billion through southern Vancouver Island, and university research activity and technology innovation, which puts $994 million into circulation.

A gold standard in international sustainability rating system. In February 2014, UVic achieved a gold rating in the Sustainability, Tracking, Assessment & Rating System (STARS), administered by the Association for the Advancement of Sustainability in Higher Education. UVic is only the fifth Canadian university to achieve a gold rating under the STARS system, and the first using the updated version 2.0 reporting system.

One of Canada’s top diversity employers. In 2014, UVic was named one of Canada’s Best Diversity Employers for the third year in a row. Nationally, 55 organizations were recognized for a range of initiatives that attract and retain employees from diverse communities. UVic was one of only three universities included on the list, and one of two organizations in Victoria.