



FALL 2020

Health Innovation: Resources and Opportunities for Students

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A photograph of a wooden spiral staircase, viewed from above, showing the curved wooden steps and railings. The image is positioned on the left side of the slide, partially overlapping a dark blue vertical bar.

Presentation Overview

Non-Academic Experiences

NS Sandboxes

About Pulse

Health Innovation

Halifax Start-Ups

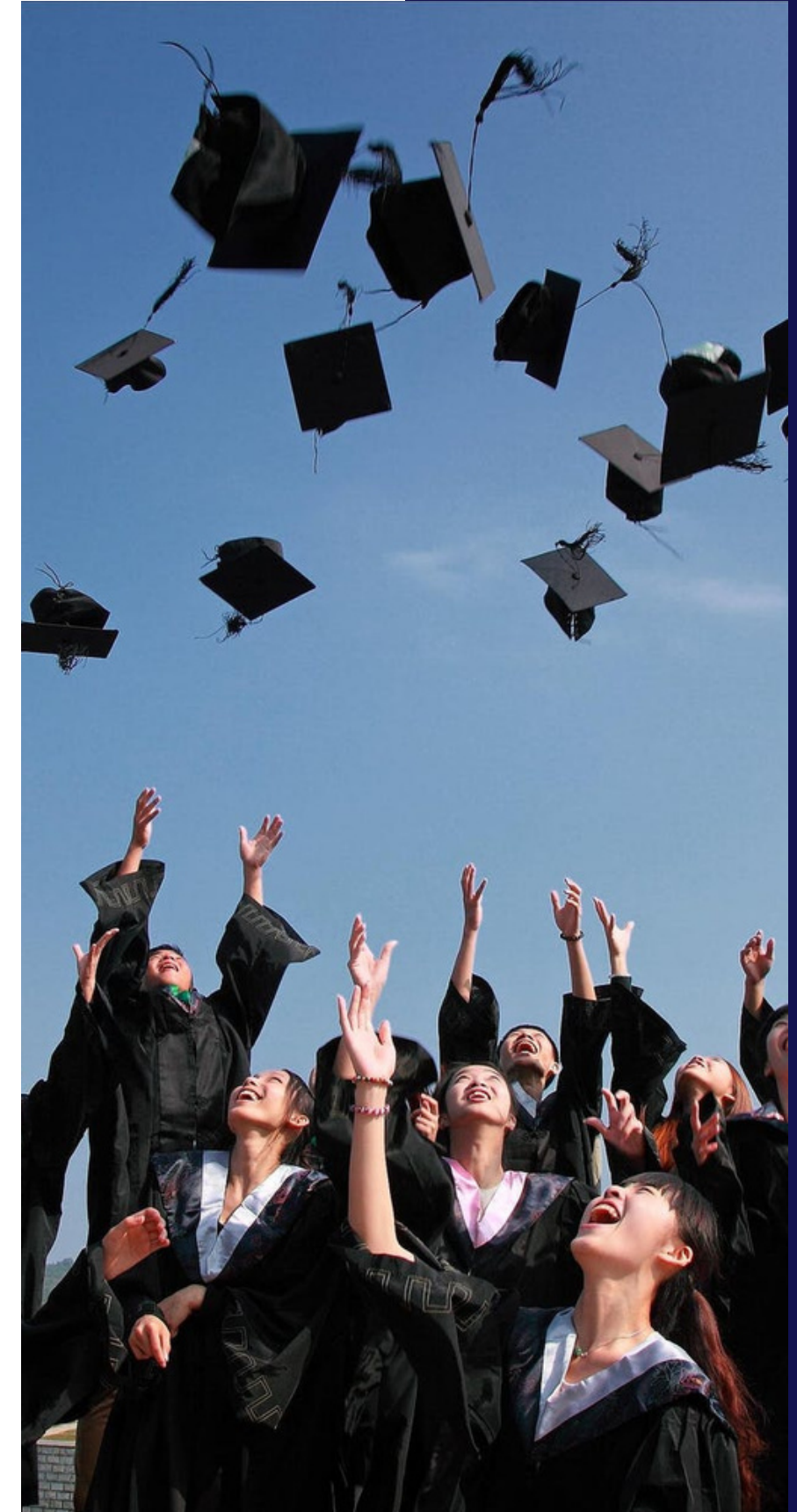
Resources

Start-Up Pipeline

Conclusion

Academia or Industry?

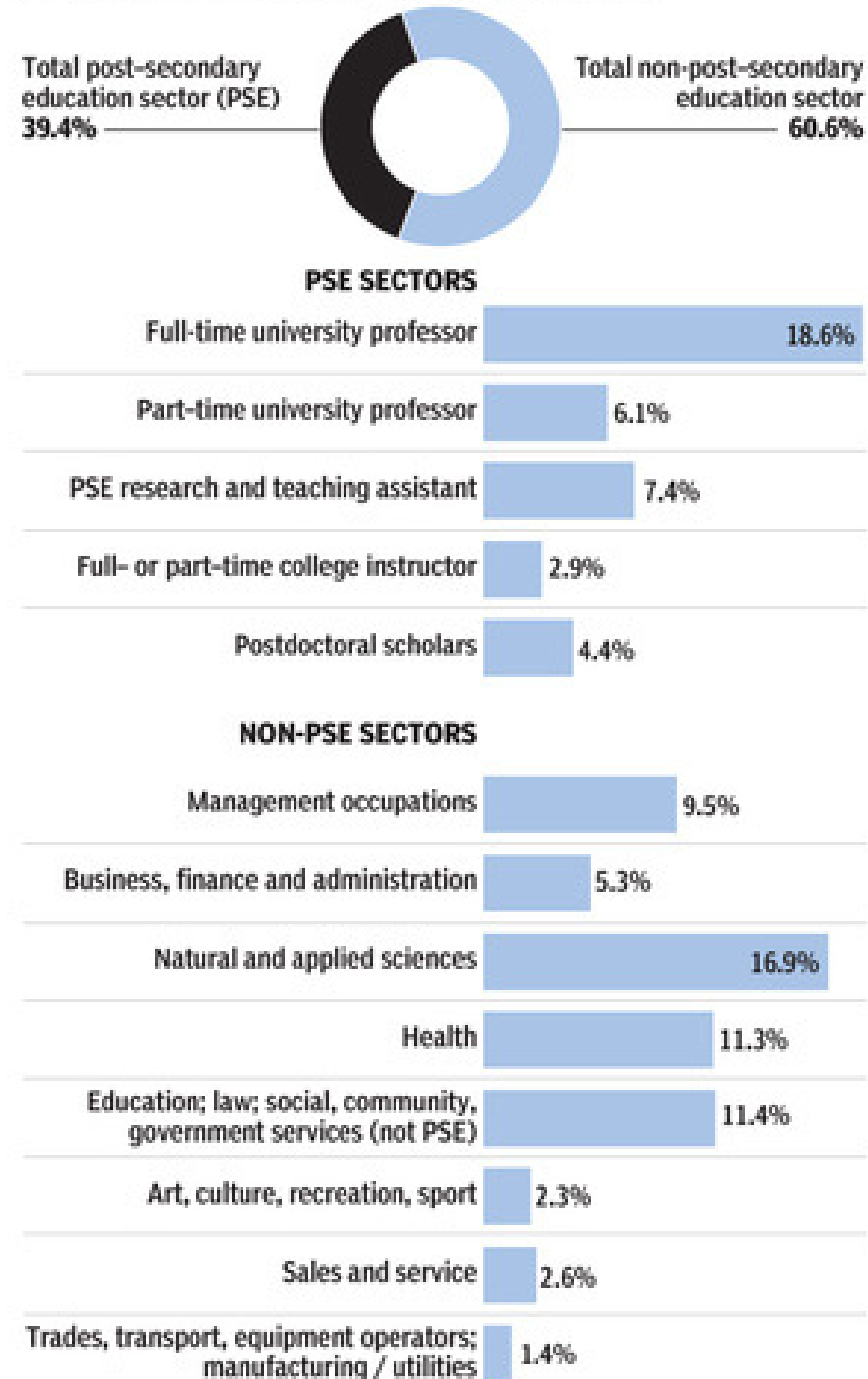
**MANY GRADUATE
STUDENTS DO NOT
CONTINUE ON WITH
ACADEMIA**





WHERE ARE CANADA'S PhDs EMPLOYED

BY SECTOR OR OCCUPATION, IN PERCENT, 2011



- Just over half of Canadian PhD graduates do not continue with academia
- Important to have skills that are competitive in non-academic positions
- Pulse aims to help students gain these skills



NOVA SCOTIA SANDBOXES

- Five Dalhousie Sandboxes
- Ten Sandboxes across the province
- Provincially funded

GOALS OF SANDBOXES

- Build skills
- Inspire innovation/creative thinking
- Encourage collaboration
- Open to everyone

About Pulse



- Newest Sandbox
- Focused on health/life science innovations
 - tech, devices, pharmaceuticals, non-profit/community projects
- Promote innovation and entrepreneurship in the province
- Focused of Health, Medicine, Dentistry



Our Objectives



CREATIVITY

Ideation and creative
problem solving

COMMUNICATION

Communication with peers
Communicating ideas

COLLABORATION

Working with others towards
a common goal

OPPORTUNITY

Creating opportunities for
students, staff, and faculty

Pulse Participants



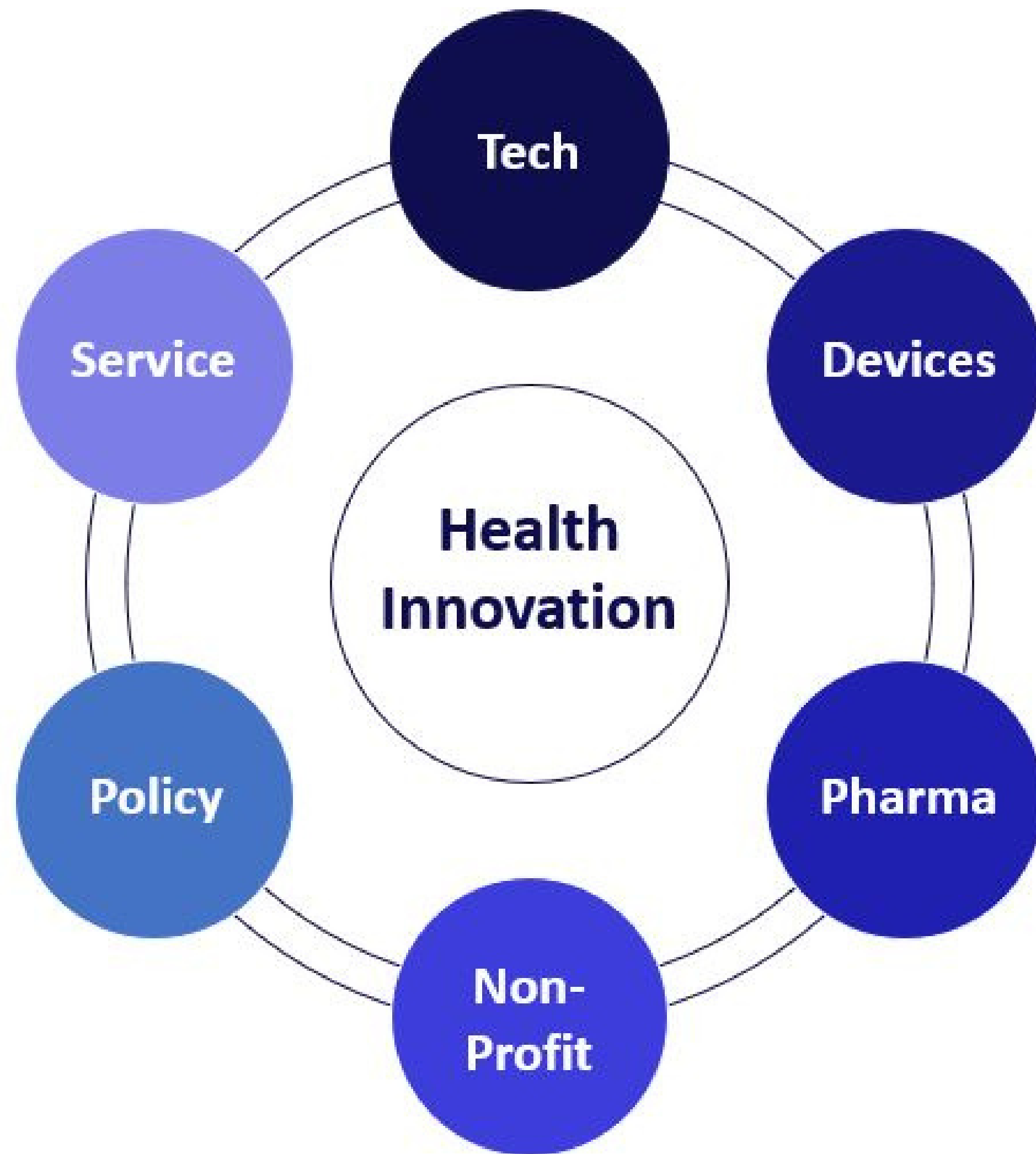
- Anyone wanting to learn about health innovation
- Any student wanting experience outside of academic/graduate work
- Anyone with an idea they want to grow
- Build soft skills (teamwork, leadership, communication, creativity)



Health Innovation

**DEVELOP NEW OR
IMPROVED PRODUCTS,
TECHNOLOGIES,
SERVICES, OR METHODS
THAT IMPROVE HEALTH**





Health Innovation



MED TECH

- health-related technology
- e.g. apps

MEDICAL DEVICES

- medical instrument for treatment, prevention, or diagnosis of a disease
- Health Canada approval

PHARMACEUTICALS

- prescription and non-prescription drugs
- trials, strict regulations

Health Innovation



NON-PROFIT

- health-focused non-profits/charities

POLICY

- health-related policy changes

SERVICE

- innovating the way a certain service is done

Halifax Start-Ups



COLOURSMITH LABS

- Contact lenses for colourblindness and to protect against bluelight
- Started by Dalhousie chemistry grad



NOVARESP

- Device for sleep apnea
- Started by Dalhousie graduate student



TRANQUILITY

- Online CBT
- Co-founded by PhD student at Dalhousie





Have an Idea?

Pulse can help!



FUNDING

- Residency funding to help start your innovation
- MITACS approved incubator



INTERNSHIPS

- Partnering with start-ups to help provide students work experience
- Stipend, letter of reference



INNOVATION CHALLENGE

- Health-related challenge
- Business seminars to accompany practical work
- Stipend and certificate of completion



EVENTS

- Hackathons
- Seminar series (IP, funding options, professional development)
- Pitch events



FURTHER RESOURCES

Connect student start-ups with further resources (funding, legal, financial)

FURTHER PROGRAMMING

Engage students with more innovative ideas in more innovation-focused programming

JOB SKILLS

Help students build skills to highlight when applying for future positions

After Pulse

PULSE PREPARES
STUDENTS AND STUDENT
START-UPS FOR FUTURE
DEVELOPMENT

Dalhousie Resources



PATH2INNOVATION

- 3-day program
- explores entrepreneurial thinking



LAB2MARKET

- helps students to assess commercial viability of university-based research innovations
- 16-week program, \$15,000 stipend



READY2LAUNCH

- preparation to launch innovation
- growing ventures





PATH2INNOVATION

- Three-day virtual workshop
- Explores the value of entrepreneurial thinking as a means of developing careers and research of leading graduate students, post-docs and faculty, and also advancing their research, innovations and ideas into impacts
- Open to grad-students and post-docs across Atlantic Canada
- Funded by ACOA and is free of charge to students and faculty

LAB2MARKET



- Lab2Market is a national-level pilot program in Canada to fund and equip graduate students and their faculty supervisors with the entrepreneurial skills needed to assess the commercial viability of their university-based research innovations
- Program Benefits:
 - Funding for Customer Discovery (\$15,000)
 - Concentrated time to focus on commercialization
 - Exposure to/input from start-up experts and mentors
 - Answer critical business questions:
 - Initial target customers?
 - What do they value?
 - Channel strategy – How will we sell?
 - Revenue model – How will we make money?

Atlantic Entrepreneurship Workshop Series



UNCOVER THE RIGHT IDEA

- October 1, 2020

STAYIN' LEAN

- October 8, 2020

TAKE ON TECH

- November 5, 2020

IDEATHON

- November 19, 2020



External Events and Resources

EVENTS

Policy hack, hackathons,
techstars

VOLTA

Health Challenge Pitch Event
Opportunities for funding
and communicating your
idea(s)

INNOVACORP

Workshops catering to those
wishing to grow their
business/idea

ORGANIZATIONS

Centre for Women in
Business, CEED





Wrapping it up

ECOSYSTEM

Lots of opportunities for healthcare-related start-ups in Halifax (especially for students)

SANDBOXES

Provide resources and guidance to those looking to gain more experience outside of class/research

PULSE

Engage students in health/life-science centred programming, events, and resources



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SURVEY WILL BE EMAILED
FOR FEEDBACK ON
PROGRAMMING AND EVENTS

WEBSITE, SOCIAL MEDIA TO
BE RELEASED SOON
@innovatepulse

Get In Touch



Thank You!