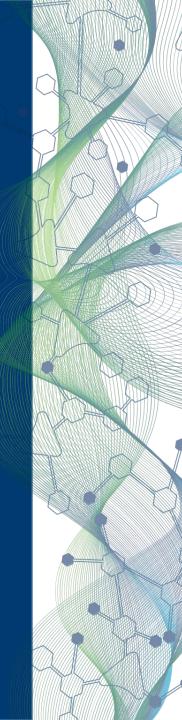
Alberta Innovates

Guidance for Graduate Student Scholarship Applicants/Review
Sarah Lee & Marlene Huerta
March 6, 2023

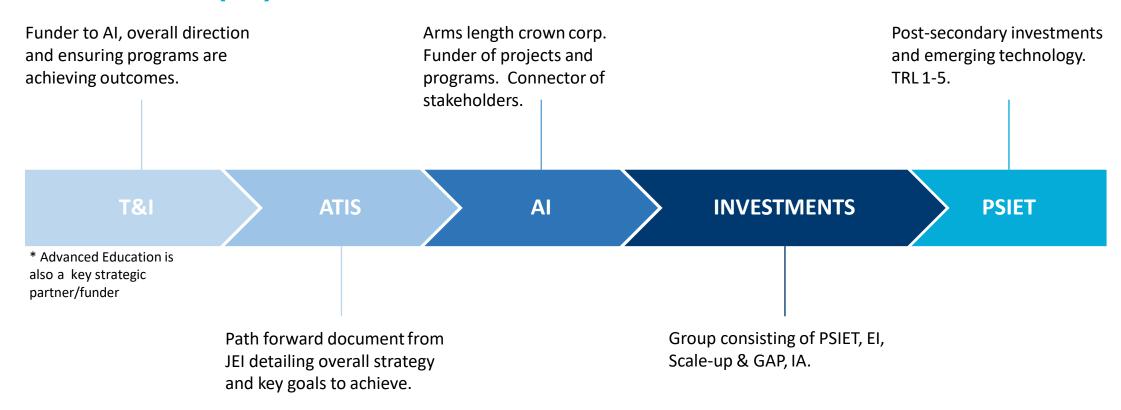


AGENDA

- 1. Alberta Innovates
- 2. Post Secondary Investments & Emerging Technologies (PSIET) & Talent
- 3. The University and Alberta Innovates
- 4. Guidance for Graduate Student Scholarship (GSS) Applicants
- 5. Q&A



Alignment – Technology & Innovation (T&I), Alberta Innovates (AI), Investments, PSIET





About us



1,320 active projects across business lines and sectors

Total portfolio value under management (project investment)

\$1.2 B

Operating budget \$250 M

ALBERTA INNOVATES

We are Alberta's innovation engine.

We are working to solve today's challenges, create new opportunities and forge a healthy, sustainable and prosperous future for Albertans.



11 locations

1 million+ sq feet of lab space

600+ acres of research farmland



589 Employees (full-time)

2 subsidiaries InnoTech Alberta & C-FER Technologies 2021-22

By the numbers



2,373 **Newinnovations** by clients supported directly and indirectly by Alberta Innovates



Revenue

 $$1 \rightarrow 6.58

\$1 from Alberta *Innovates* > \$6.58 in SME* revenue growth

We are where innovation happens, and we touch every corner of the province.

We provide funding programs, advice, connections, technical expertise and applied research services.



\$58.5 M **Additional funding** raised by researchers and trainees supported by Alberta Innovates



86% Private Funding

Investment

Alberta Innovates Funding to SMEs

Investment

\$25.64



1,415 Clientssupported by Alberta Innovates (students/trainees, researchers, companies, entrepreneurs and others)

995 Clients supported by C-FER Technologies and InnoTechAlberta



Exports

56% of AI-supportedSMEs exported goods



Jobs

3,197 Net new jobs were created

by SMEs funded by Alberta Innovates 88% full time



Learn how Alberta Innovates

*Small and medium enterprises with fewer than 500 employees



Alberta Innovates Business Lines

Investments



Post-Secondary Investments and Emerging Technologies

Entrepreneurial Investments

Accelerators

Clean Resources

Health Innovation

SUBSIDIARIES
CFER Innotech

+ Investment Services

+ Organizational teams (grants administration, finance, legal, IT, etc.)

+ Representation across Alberta (RINs, TDAs)



Funding, enabling and matchmaking emerging technology inventors to increase the volume of commercial outcomes for Alberta's future prosperity

Emerging Technology

 Nascent technologies and related talent

Inventors

- Multiple persona types
- Solve, build, research, create, iterate, tinker, do

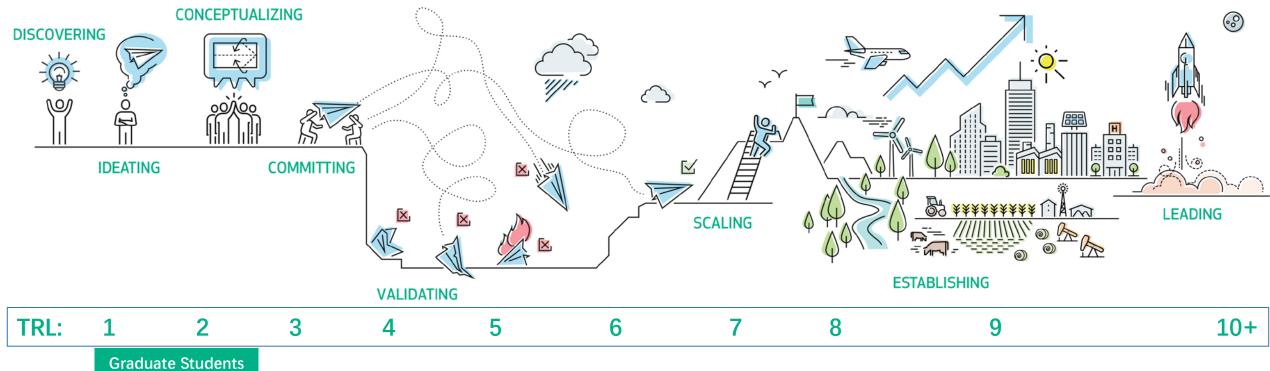
Volume

- Quality
- Breadth
- Diversity

Post Secondary Investments & Emerging Technology (PSIET)



PSIET along the Alberta Innovates Client Journey



Graduate Students Scholarships (GSS)

Strategic Research Program (SRP)

NSERC Alliance AI (Advance)

Ecosystem Development Program (EDP) – Technology Hubs (pilot)

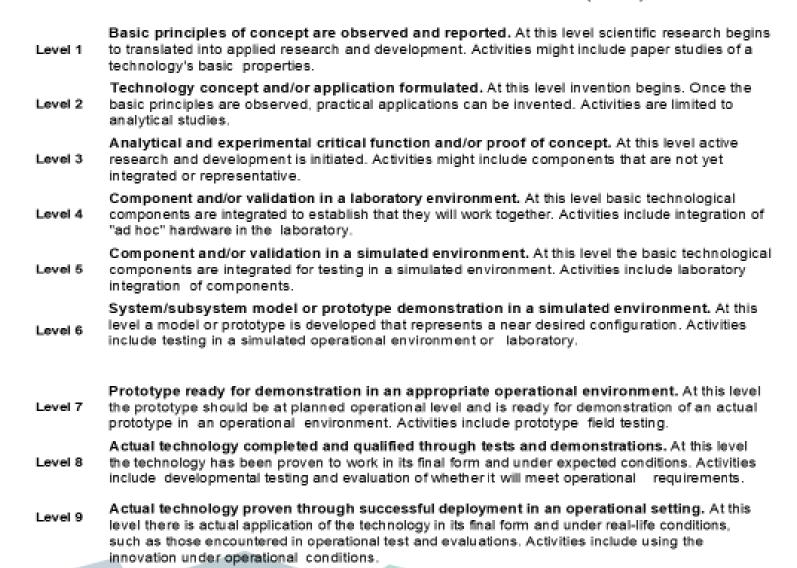
Institutional Support for Entrepreneurial Education (ISEE)

Strategic Networking & Development (SND)

Campus Alberta Small Business Engagement (CASBE)



TECHNOLOGY READINESS LEVELS (TRL)



PSIET

Talent

 Graduate Student Scholarships (\$12k-\$31k/year)

Research

- Campus AB Small Business Engagement (\$150k/year)
- NSERC Alliance (\$150k/year)
- Strategic ResearchProjects(\$250k/year)

Ecosystem Development

- Technology Hubs (not specified)
- Strategic Networking and Development (up to \$25k)

Investments

PSIET Emerging Technologies (ET) Priority Target Areas*

Information and Communication Technologies (ICT)

- Communication Networks and Services
- IoT/Machine-to-Machine systems
- Advanced Data Management and Analytics, AI/ML
- Cybersecurity
- Human Interaction with Digital Media
- Quantum Computing

Advanced Materials and Manufacturing Technologies (AMM)

- Automation (including robotics)
- Lightweight materials and technologies
- Additive Manufacturing
- Nanotechnology
- Quantum Materials

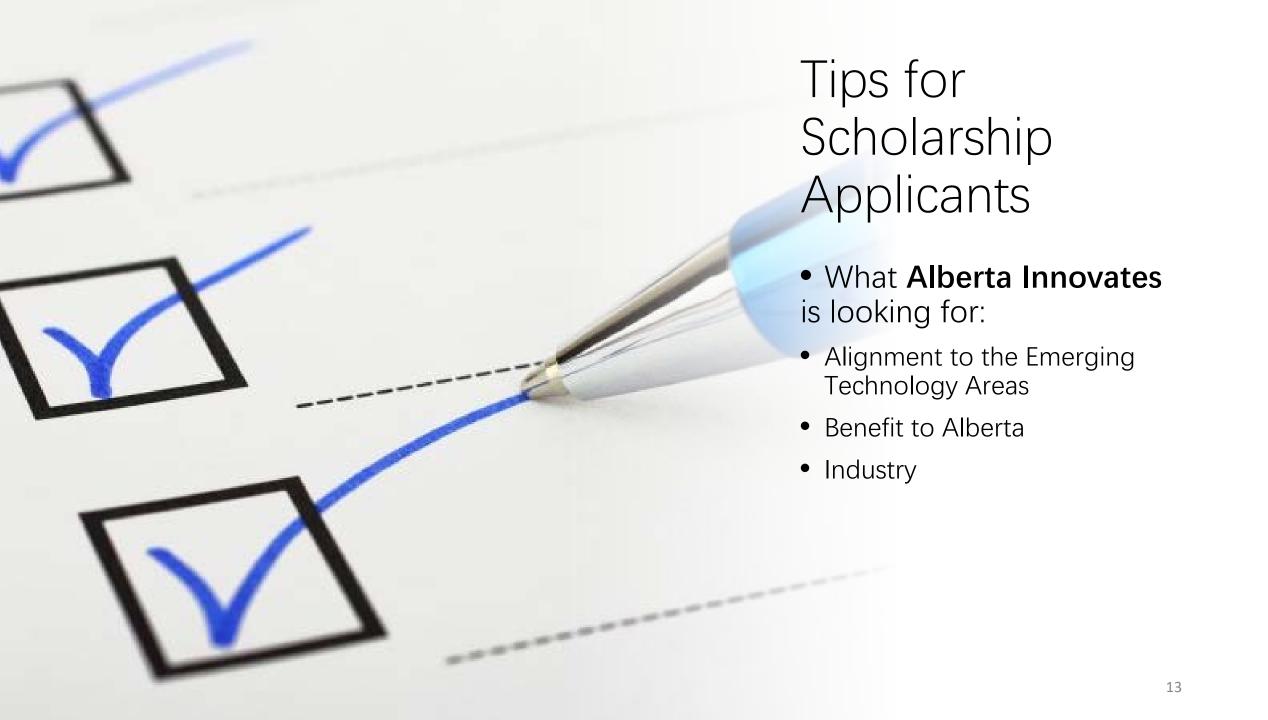
*https://albertainnovates.ca/app/uploads/2020/10/GSS-Emerging-Technology-Areas-October 28.8ERTAINNOVATES 2020.pdf

Role of the University and Alberta Innovates

- Graduate Student Scholarships (GSS):
 - administered by the University
 - oversight and guidance from Alberta Innovates' PSIET group
- Adjudication Process
 - University adjudication committee
 - Emerging Technology Scientific and Technical Expertise
 - Ranked list
 - Alberta Innovates
 - Emerging Technology Alignment & Business Expertise







Alignment to AB Innovates' Emerging Technologies

- Does your project align with the emerging technology area described in the Graduate Student Scholarships (GSS) Emerging Technology Areas document?
- https://albertainnovates.ca/app/uploads/2020/10/GSS-Emerging-Technology-Areas-October-28-2020.pdf



Benefit to Alberta

What do you hope to achieve from your research and how does that benefit Alberta?











Environmental

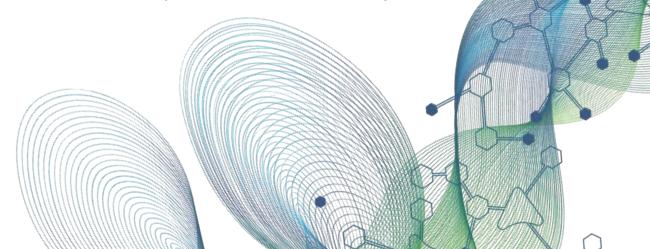
Health

Economic

Social

Other Impacts

What is the potential for your technology/proposed solution to be adopted in Alberta and beyond?





Industry

- Relevant Industry experiences
 - Involvement of industry
 - Industry partnerships
 - Likelihood of work being published, IP produced, commercialization?
 - Applicant working on a project that is directly for an industry client?





THANK YOU





Questions

Talent

Sarah Lee Alberta Innovates

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Research

Marlene Huerta or Shabbir Mustafiz Alberta Innovates

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