

public policy, communications, and a range of other fields as well as across fields. Institutions will guarantee the match with their applications to the program.

**Why?**

- Innovation knows no disciplinary boundaries and relies on internationally competitive talent in all fields. There are no current Ontario mechanisms to recognize senior outstanding social scientists and humanists

**2i.** Double the investment in the Ontario Graduate Scholarships (OGS) program (currently valued at \$14.7 million annually), and the Ontario Graduate Scholarships in Science and Technology (OGSST) program (currently valued at \$7.5m annually). OGSST will be renamed the Ontario Graduate Scholarships in Research and Technology (OGSRT) program and opened to all disciplines, in partnership among universities, the Government of Ontario and third party sponsors. Distribute these scholarships on a performance driven formula basis to institutions reflecting for the OGS 75% graduate student enrolment and 25% federal granting council success, and, for OGSST using the current allocation mechanism, both to be competitively allocated within institutions (P) (U) (O).

**Why?**

- Attracting and retaining superb graduate students is essential to growing the next generation of talent. To do so requires a level of graduate student support that is nationally and internationally competitive
- Ontario lacks a stable and responsive program of

fellowships and senior scientist awards for outstanding researchers warranting special recognition, profile and investment

**3 EXPAND THE IMPACT OF UNIVERSITY RESEARCH AND FOSTER ENTREPRENEURSHIP**

**All Partners:** *Government of Ontario (P), Government of Canada (F), Municipal Government (M), Universities (U), Community Colleges and Schools (S), Industry (I), Businesses (B), Communities (C), Leaders (L), Others (O) and All Partners (All).*

**3a.** Give special consideration to academic plans that enhance research-teaching synergies and grow university research-linked academic programs that strategically link the liberal arts and social sciences with education in the physical and life sciences and the professions, and foster educational experience in private sector externships (U).

**Why?**

- Effective teaching and university research are integrally linked. Top students are drawn to a university because of its reputation for excellence in university research, and all students and the economy in which they later participate benefit from study in an atmosphere that is enriched by university research and scholarship. Faculty members who are actively engaged in university research bring new ideas, enthusiasm and excitement into the classroom, igniting the imaginations of their students and creating new opportunities for problem-based learning and the development of life-long learning strategies

- Innovation is enhanced by cross-disciplinary university research and related teaching and linkages to innovation employment sectors

**3b.** To build university research impact and to foster entrepreneurship, create an Ontario University Intellectual Property Management (OUIPM) program, to invest on a competitive basis with a 1:1 match generated by the participating universities and their partners, and guaranteed by universities in applications to this program. This program would be open to single university applications or to group applications, although consortium models would be particularly encouraged. Proposals would aim to build the capacity and impact of Ontario's universities in effectively managing and commercializing the intellectual property derived from their university research. Efforts would be enhanced to increase disclosure of potential commercial ventures stemming from research findings and to provide university services to support effective university intellectual property management and commercialization (P) (U) (O).

**Why?**

- While Ontario's universities, as a group, rank first in the Nation in technology transfer and commercialization, investment in university programs to support such activity, such as the proposed OUIPM, is virtually non-existent at present. There is insufficient networking and sharing of best practices and expertise in this area, insufficient disclosure of research findings and insufficient university service in support of

**3c.** Create research-linked and job-linked academic programs to foster entrepreneurship, and the creation of technology and intellectual property drivers, drawing particularly on knowledge and experience in bridging the liberal arts to management, law, engineering, and the physical and life sciences. Design programs and build creative, co-operative educational and research opportunities in partnership with the private sector (U) (I).

**Why?**

- There is an insufficient supply of intellectual property and technology managers, and universities are not yet launching programs to effectively bridge this gap

**3d.** Grow a range of Access to Excellence programs of university outreach especially to primary and secondary schools and to the very young; build special bridges between universities, schools, and science outreach organizations, including Science North, and the world-renowned Ontario Science Centre; link to those communities and neighbourhoods with high drop-out / academic failure rates (All).

**Why?**

- A university education has great value to the individual, their workplace, and to the economic and social advancement of the Province and its sub-regions. Science, arts and innovation outreach draw on the research expertise and enthusiasm of university faculty, students and staff and foster interest and confidence on the part of young people

- Enhance access to excellence and the important university service roles demonstrated to be of benefit in Ontario and in other jurisdictions
- Build science awareness and innovation literacy as an important part of Ontario culture

**3e.** Create university outreach partnerships to foster community science, arts and design research competitions at the primary and secondary school levels, in collaboration with schools, community organizations and the private sector (All).

**Why?**

- Entrepreneurship and the qualities of excellence, daring and initiative that lead to innovation must be seeded early in young people in order to create and grow an innovation culture
- Productive, innovative jurisdictions build broad societal benefits in economic and social terms and prepare the citizens to operate successfully in the global knowledge society

**4 FOSTER LOCAL, NATIONAL AND GLOBAL INNOVATION NETWORKS AND GLOBAL PROFILE**

**All Partners:** *Government of Ontario (P), Government of Canada (F), Municipal Government (M), Universities (U), Community Colleges and Schools (S), Industry (I), Businesses (B), Communities (C), Leaders (L), Others (O) and All Partners (All).*

**4a.** Develop international benchmarks and standards of excellence. Develop and implement in collaboration strategic plans and networks to attract internationally significant research programs, institutes and facilities to Ontario, to capitalize on Ontario's areas of special research competitiveness and to build advantage in federal, private sector and international competitions—e.g. facilities and institutes in Genomics, Bioinformatics, Proteomics and Imaging; institutes and facilities to contribute to the “Automobile of the 21st Century”, “Aerospace Studies”, “Transportation for the 21st Century”, “Advanced Materials”, “Robotics”, “Human Development”, and “Public Policy”, among others (All).

**Why?**

- Excellent facilities support university research competitiveness and progress while serving as a magnet for superb talent and investment. National and international university research infrastructure advances Ontario's competitive research advantage. Ontario has world-class competitiveness in the fields that would be supported by such facilities; for example, Ontario has contributed to the identification of approximately 25% of the human disease genes identified worldwide

**4b.** Enhance investments in Ontario-based world-class national university research institutes to increase the benefits to Ontario of the innovation capacity of these elite research institutes, for example, the Canadian Institute for Advanced Research (CIAR) and the Fields Institute for Research in Mathematical Sciences (the Fields Institute), on a matched basis to new resources