

Idea Name: Funding Care and Research Innovation

Organization: St. Joseph's Health Care Foundation

Description: We are asking the City of London to consider an investment in two Innovation Streams with the potential to deliver economic benefit for years to come – an investment that will foster innovation in healthcare technology, contribute to London's economy through job creation and resource attraction, and keep Londoner's healthier and more productive throughout their lives.

Innovation Stream #1 – Care Innovation for Healthier Communities -- \$8.7 million

This stream would see investment in three key areas that would create care innovation for a healthier community:

Clinical Research Centre at St. Joseph's Hospital—This new Research Centre, as part of our Lawson Health Research Institute arm, will work to substantially reduce the complications resulting from chronic diseases, improves productivity and quality of life, and prevents hospital admissions and re-admissions. Integrated Complex Disease Management is one of the most growing areas of need in our region and St. Joseph's has made this one of its priority areas of focus.

Molecular Imaging—A well-established area of international strength at St. Joseph's. The next frontier of molecular imaging is its application to molecules that will target and reveal diseased tissues in fine detail. The immediate applications for this work will be in the area of breast imaging and chronic disease, contributing to better evidence-based care and outcomes.

Mental Health Redevelopment—With one of the largest mandates in Ontario, St. Joseph's Health Care London is rebuilding the specialized mental health care facilities in our region, including a 156-bed inpatient and outpatient facility in London. New LEEDS standard facilities feature bright, open and therapeutic purpose-build spaces that support care models focused on recovery and rehabilitation, replacing the current 75-year old London facility and offering an innovative, dignified new care environment for those with severe and persistent mental illness in our community.

Innovation Stream #2 – Medical Device Innovation -- \$1.6 million

Building on its historic commitment to medical inquiry, the St. Joseph's Hospital site is also becoming a nationally-recognized hub for medical device innovation. Innovation Stream #2 focuses on this growing scientific and economic area and involves two of St. Joseph's pinnacle surgery and treatment programs – St. Joseph's Hand & Upper Limb Centre (HULC) and the Ivey Eye Institute, Canada's largest eye treatment centre. Both world-renowned as centres of excellence in care, teaching and research, a new thrust in medical device innovation will not only advance care, but will attract further education, research and economic interest nationally and internationally. We believe that this investment builds on the City's interest in positioning London as a national destination for this unique specialty.

Orthopedic Engineering Laboratory – Surgical Mechatronics – St.

Joseph's hosts one of world's most acknowledged teams in specialized hand and upper limb surgery. This team has, for many years, developed new devices for orthopedic implants and replacement joints, new placement tools, and new fixatives to prevent device failure. A new laboratory is slated to be doubled in size given the industry demand for partnerships in research and development, for testing facilities and for a linked clinical trials environment.

Ophthalmology Devices Testing Program – The Ivey Eye Institute at St.

Joseph's Hospital is one of Canada's largest, and has become a preferred centre for industry to showcase and test new technologies associated with ophthalmologic diagnostics and treatments. A national opportunity exists to leverage the Ivey's clinical scope and serve as a test centre for new technologies associated with Canada's eye care industry.

- Building research critical mass
- Impact of an innovative community
- City with an innovative platform serves as a spring board to other opportunities, funding resource, talent. We need critical mass so that synergies within the clinical care continuum and within London's Academic Health Sciences Network

Status: St. Joseph's Health Care London, with its research arm, Lawson Health Research Institute, in partnership with London Health Sciences Centre, is meeting the needs of our community and region in distinct care areas representing the most unique blend of specialized services found anywhere in Canada. We are now focused on areas where care will be needed most, including chronic disease management, science and care related to aging, specialized acute care interventions, and mental health care.

The Board of St. Joseph's Health Care London has approved a new strategic plan – a clear course for the future, aligned with what will be the predominant needs of our community and built on a strong legacy of innovation, care and compassion. In turn, the St. Joseph's Health Care Foundation is responding with the most significant philanthropic plan in its history.

To achieve these next care, academic and community investment milestones requires community leadership. The St. Joseph's Health Care Foundation is actively engaging corporate and individual partners. The City of London is pivotal in this regard.

Lawson Health Research Institute was created in 2000, as a result of an amalgamation of three separate institutes. LHRI has been attracting research grants and funding, which has grown considerably since 2000, but is in need of new facilities to expand the world class research being conducted by their team.

St. Joseph's new specialized mental health care facilities will be significant markers of bringing mental illness out of the shadows and offering recovery-focused care environments, while helping people regain productive, safe community living. The London facility will also house significant mental health research space, an attracting feature for professionals. The City of London through its community and police services leadership, are very engaged with care providers in the transformation of the mental health system. We would very much like to have the City standing with us as the new London facility opens in June 2014.

The ideas represented in these projects require infrastructure to thrive. In the case of the Surgical Mechatronics Lab and Medical Device testing, we have the clinical talent and expertise, but are still in need of finished space to house this important work.

Partners:

Within the clinical care continuum and within London's Academic Health Sciences Network, St. Joseph's Health Care London works collaboratively with London Health Sciences Centre, Western University, (including the Faculty of Health Sciences and Schulich School of Medicine and Dentistry), Fanshawe College and our respective research institutes.

Cost: \$40 million care teaching and research philanthropic plan, plus \$358 million Regional Mental Health London project

Funding Requested from City (\$) if any: \$10.3 million

Will this idea move forward without City of London funding? St. Joseph's health Care London has established these key priorities, but success will depend on philanthropy and investment from the City – an endorsement of the value of academic health care in our community in terms of our health and economic well-being.

Many components of this initiative cannot move forward without community support. The exception is St. Joseph's specialized mental health care redevelopment projects, already underway with the investment of the Province of Ontario. Support for mental health research and enhancements to the physical environment and the use of technology remain important community investment needs and opportunities.

Expansion for the Clinical Research Centre at St. Joseph's will not move forward until support from the City, community, and industry partners is obtained.

Will your idea create jobs? Yes

How many jobs will be created? 101-500

Full or Part-time: Full-time (32hrs/wk+)

Permanent or Temporary: Permanent

Job Level: Mid-level

Job Salary: Salary of \$20,000-\$40,000 (\$12-\$20/hour)

What sector(s) will this create job(s) in? Health care and social assistance

Is there anything else you can tell us about how your idea will create jobs? These projects will create jobs – high knowledge jobs, which contribute significantly to the economy and the community's quality of life. When Lawson amalgamated in 2000, it had approximately 700 jobs. Today, LHRI has 1200 jobs. In 2000, Lawson attracted \$28 million in grants with total funding of \$48 million. In 2011, Lawson attracts \$70 million in grants and total funding of \$108 million. The growth is significant. During our presentation on June 9th, we will speak to the trajectory of this job creation and economic impact and what we anticipate for the future.

Will this idea leverage investment from others? What kind? How much?

The St. Joseph's Health Care Foundation has taken on the philanthropic leadership to support St. Joseph's next generation of health care innovation. This is a \$40 million initiative focused on the most predominant health care needs of our community and region.

We are in dialogue with private sector funders about these funding priorities. There is a great deal of awareness, interest and support being generated, given St. Joseph's 140-year track record in innovation, service and community confidence. Some business and community leaders have indicated, however, that our dialogue cannot advance without knowing what the City commitment to these priorities will be. We believe that a City commitment to these research and clinical platforms at St. Joseph's will inspire other private commitments.

This leadership requirement also extends far beyond the City boundaries. It is essential to provide the right environment for London-based researchers to flourish and then arm them to compete nationally for external funding opportunities. Virtually all funds provided to Lawson, including those raised by our Foundation, are matched through external sources. This demonstrates the power of investment in local hospital-based research at Lawson Health Research Institute.

According to Dr. David Hill, Scientific Director of LHRI, "The St. Joseph's Health Care Foundation has consistently provided seed capital on behalf of our community that has allowed Lawson to match this between 3 and 5 times from both Provincial and Federal governments to bring the latest experimental health innovations into the city. Lawson has consistently become the first place in Canada to evaluate new health technologies, and that brings the brightest minds to work in London. Innovation has been a magnet for talent that enriches our community in every way."

Will this idea stimulate spin-off benefits? What type? How? When? Where?

Discoveries lead to economic opportunities including spin-off companies that help to support more research and contribute to the economy. A dedicated Centre with a unique research focus attracts interest, talent and external funding.

The earlier quoted report from LEDC indicated \$20 million in spin-off benefits as a result of Lawson Health Research Institute's demonstrated economic impact.

- \$15 million in annual income generated in the local economy due to spin-off activities resulting from LHRI's employment,
- \$5 million in spin-off from industry-to-industry transactions

Will this idea build new or existing partnerships? How?

These projects will build on existing partnerships within London's Academic Health Sciences Network, including London Health Sciences Centre, Western University, Fanshawe College and our respective research institutes.

New care and research environments, particularly in specialized mental health care will also have spin-off benefits associated with our increased capacity to improve the course of advanced technology to support care in the home.

Will this idea benefit emerging or established industry sectors? How?

These projects will benefit emerging and established industry sectors. We support the City of London in focusing on the Five Areas of Focus for Economic Prosperity—we contribute to the Business Retention, Growth and Attraction bucket, as well as Retaining and Attracting Talent and Developing the Labour Force.

St. Joseph's plays a significant role in the health, service, academic and economic fabric of our City and region. We are privileged to serve in the spirit of community including contributing to Community Economic Development and while we play a major role in our region, helping others receive care closer to home, we do act as a regional referral source in many of our 55 programs, bringing patients and families to our community for excellent tertiary care. Also more than 1500 students train at St. Joseph's each year and while most come from our education institutions here in London, we have education agreements with about 35 institutions and each year, we also attract international students, particularly through our Hand and Upper Limb, Urology and Ivey Eyes Institute programs.

Our Health Centre, Regional Mental Health Centre and Research Institute stimulate Community Economic Development and also attract Visitors—patients and family who come to London to gain access to our excellent healthcare system.

While we are more focused on the Life Sciences growth sector, we believe we contribute to all five buckets of focus for Economic Prosperity.

St. Joseph's is proud to be a part of London's fabric and its future. We are the specialty hospital of the tomorrow, right here at home today. We are dedicated to the finest care, teaching and research teams. We are focused on regaining, sustaining and improving health while helping people live to their fullest. With our partners, we are on the move to re-ignite London's rightful place as a centre of health care excellence and community vitality.

Will this idea fuel transformative change in London's economy? If so, how?

This project will fuel transformative change in London's economy. This requested investment will foster and support innovation in healthcare technology, spawn new companies, to London's economy, improve

health outcomes (which in turn reduces costs to the system) and keep Londoners healthier and more productive throughout their lives.

New environments supporting teams and partnerships are magnets for highly skilled health professionals. The Clinical Research Centre at St. Joseph's Hospital has the potential to attract funding and highly-qualified personnel, create jobs and economic growth. Consider that:

- Researchers at Lawson and elsewhere in London generate more than 70 inventions a year, the second-highest number in Ontario
- 70% of research funding is used for salaries
- In total, researchers at Lawson and its London partners attract more than \$200 million in research funding
- Lawson Health Research Institute alone employs 90 PhD scientists, more than 200 clinician scientists and a total of 1200 staff; it is a major economic driver of London's growing biomedical reputation. Lawson touches some 40 countries around the world.

More specifically, based on the 1200 jobs at Lawson Health Research Institute, the London Economic Development Corporation (LEDC) recently estimated that Lawson demonstrates economic impact of \$55 million annually, plus a spin-off benefit of approximately 400 additional jobs across all impact areas.

The \$55 million in demonstrated economic impact is derived from:

- \$25 million in direct income creation for Londoner's annually
- \$15 million in annual income generated in the local economy due to spin-off activities resulting from Lawson's employment
- \$10 million in economic impact of supplies sourced from London companies
- \$5 million in spin-off from industry-to-industry transactions

The employment impact of 400 jobs is derived from:

- Economic activity in London created by Lawson's 1200 jobs
- These 400 indirect jobs in London are supported due to Lawson's direct employment and can be found at supplier companies, service providers, etc.

LEDC noted that "Lawson employs 240 scientists and 430 associate scientists. These jobs are vital to building a knowledge-based economy. This is further complemented by over 300 grad students and clinical fellows. Studies have shown that high knowledge jobs like these contribute significantly to recreation, arts and culture, housing and quality of life in a community. London's marketability for new investments increases significantly due to the Lawson Health Research Institute."

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