



London, Ontario

- WHERE LIFE SCIENCES INVESTMENTS COME TO LIFE

London is home to a vibrant and growing life sciences sector. There are 19 hospitals and research facilities and approximately 53 life sciences companies. More than 20,000 people are employed in this sector, including over 2,000 researchers. Located halfway between Toronto and Detroit, London is the regional centre for southwestern Ontario.

Core Research Strengths

- ◆ Advanced Robotic Surgery
- ◆ Advanced Medical and Molecular Imaging
- ◆ Immunology and Regenerative Medicine
- ◆ Orthopaedics and Biomaterials

Universities/Colleges/Private Schools:

- ◆ The University of Western Ontario (UWO)
- ◆ Fanshawe College
- ◆ CDI College
- ◆ Medix School

Commercialization Centres and Research Parks:

- ◆ The University of Western Ontario Research Park
- ◆ The Stiller Centre for Technology Commercialization

Leading Developments:

- ◆ The Biotron, an innovative environmental research facility bridging environmental research, agriculture, medicine and engineering.
- ◆ The West Valley Building is a 40,000-square-foot research facility located at The University of Western Ontario. The Building is a partnership between the University, Lawson Health Research Institute, London Regional Cancer Program and the Robarts Research Institute and will enable researchers and scientists with the ability to conduct animal-based medical research, including surgery and monitoring.
- ◆ Canadian Foundation for Innovation announces \$22 million for Western research projects including:
 - ✓ \$4M for new Advanced Facility for Avian Research
 - ✓ \$7M for "Green" building, converting agricultural resources into biofuels and bioproducts, developing environmentally friendly chemical processes and nanomaterials and removing pollutants from air and water using solar energy
 - ✓ \$10M for work in hybrid imaging, which combines two or more imaging methods into one platform to improve patient diagnosis and therapy.

Major Research Institutes:

- ◆ Aging Rehabilitation and Geriatric Research Centre
- ◆ Agriculture Canada Southern Crop Protection & Food Research Centre
- ◆ Canadian R & D Centre for Probiotics
- ◆ Canadian Surgical Technologies & Advanced Robotics
- ◆ Centre for Brain and Mind
- ◆ Child Health Research Institute
- ◆ CIHR Institute of Infections and Immunity
- ◆ Lawson Health Research Institute
- ◆ London Regional Cancer Centre
- ◆ London Regional Genomics Centre
- ◆ National Centre for Audiology
- ◆ National Research Council of Canada (London Research Facilities)
- ◆ Robarts Research Institute
- ◆ The UWO Photonics and Nanotechnology Laboratory
- ◆ Centre for Clinical Investigation and Therapeutics
- ◆ Experimental Eye Research Facility



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A CENTURY OF FIRSTS IN MEDICINE

When it comes to medical firsts, London, Ontario has been a leader for decades.

- 2008** North American first – implanted an insertable cardiac monitor (ICM) offering long-term, continuous monitoring of atrial fibrillation done at LHSC
Canadian first – robotic assisted radical hysterectomy performed at St. Joseph’s
- 2007** Canadian first - totally endoscopic closed-chest robotic coronary artery by-pass surgery on beating heart
Canadian first - robotic-assisted common bile duct exploration using a da Vinci robot at LHSC
- 2005** World first - robotic-assisted left atrial appendage ligation to reduce chance of clot formation and stroke
- 2004** North American first – removal of a renal artery aneurysm with the help of a da Vinci surgical robot
Launch of a probiotic product in Malaysia and Hong Kong by researchers at St. Joseph’s
- 2002** North American first - neurosurgeons at LHSC complete the first artificial cervical disc replacement
- 2001** World first - robotic-assisted surgery through telementoring: one surgeon assisted and mentored another from a remote site and both surgeons were able to manipulate the robotic arms inside the patient in the operating room
- 2000** Canadian first - transplant team performs the first adult-to-adult living donor partial-liver transplant at LHSC
World first – implantation of an antibiotic coated penile implant called Inhibizone at St. Joseph’s
- 1997** World first – transplantation of the liver, bowel, stomach, and pancreas into a five-month-old infant, the youngest recipient of a multi-organ transplant at LHSC
World first - plasma exchange treatment is credited with saving a man with a severe case of food poisoning
- 1996** World first - develop a miniature recording device that monitors the heartbeat during fainting spells
- 1989** Canadian first - cardiac stent insertion performed at Victoria Hospital
World first - invasive inner ear surgery for vertigo in normal hearing ears is conducted at LHSC
- 1988** World first – liver/small bowel transplant at University Hospital
- 1987** World first - pacemaker cardioverter defibrillator (PCD) is implanted at University Hospital
Canadian first – nuclear magnetic imaging is able to discern abnormalities in tissue at St. Joseph’s Hospital
- 1983** World first – use of natural surfactant drug as replacement therapy for babies with premature lungs
- 1951** London becomes the first centre to use Cobalt 60 as a radiation treatment for cancer patients
- 1948** Dr. Murray Barr of London discovers the sec chromatin, launching genetic research
- 1927** St. Joseph’s Hospital pioneers human blood transfusions
- 1920** Dr. Frederick Banting puts to paper his 25-word hypothesis that leads to the discovery of insulin

To learn more about Lawson Health Research Institute visit www.lawsonresearch.com