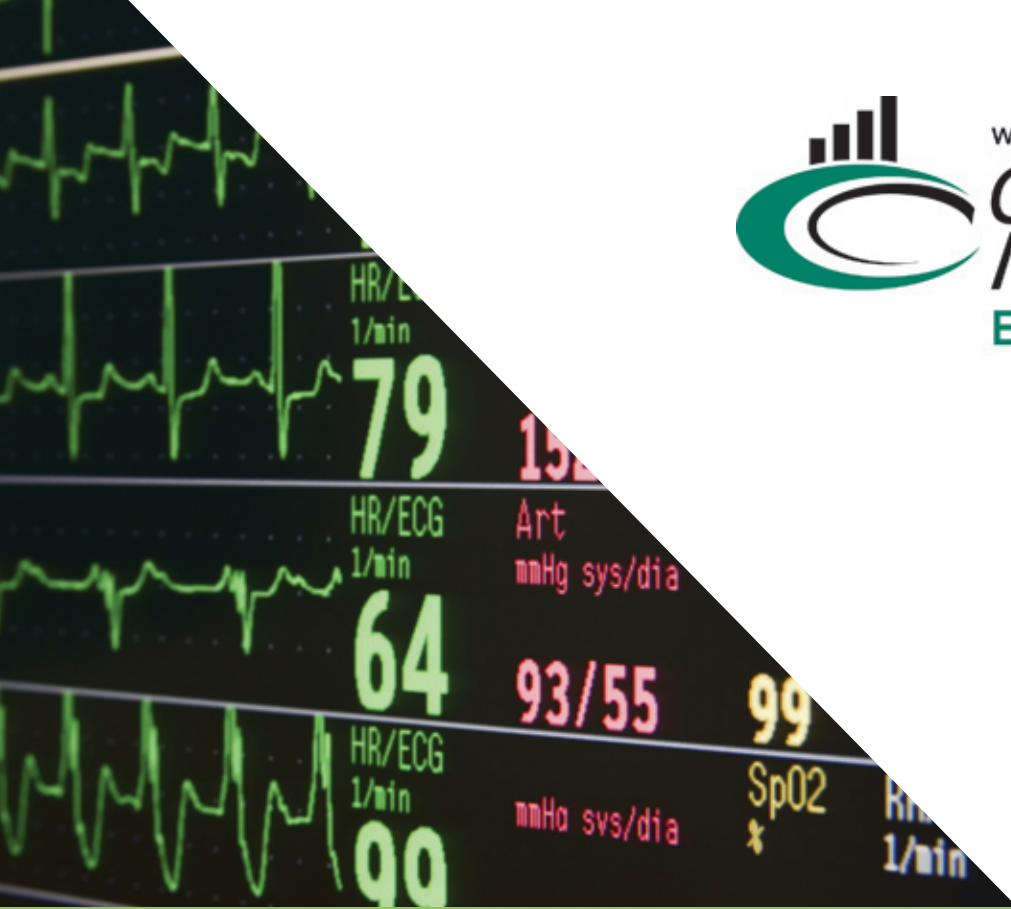




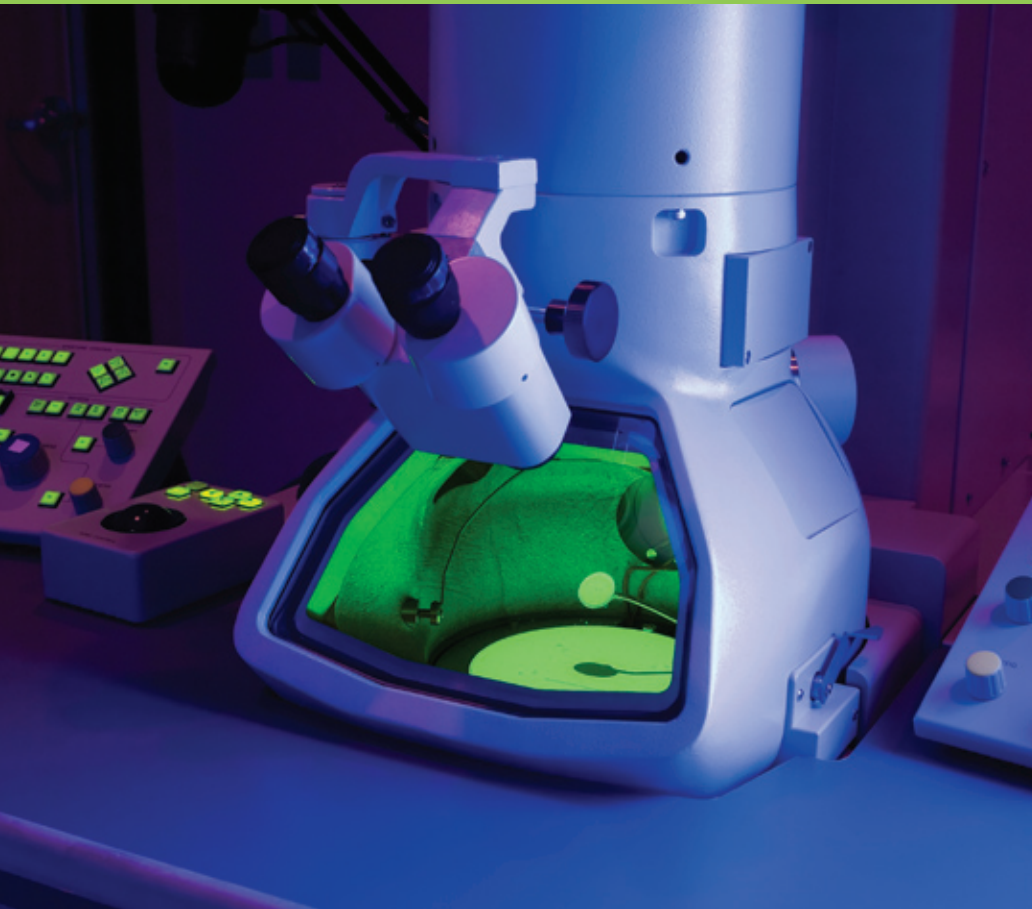
WHERE PEOPLE & TECHNOLOGY PROSPER

**Oakland County
Michigan**
Emerging Sectors®



OAKLAND COUNTY MICHIGAN'S MEDICAL MAIN STREET®

Medical Devices & Instrumentation



Extending the Future

Medical Devices & Instrumentation Companies – (Partial List)

Accumed Systems
Action Fabricators
ADCO Circuits
Advanced Sensor Technologies
Advanced X-Ray Technology
AEU Technologies
Alcan Packaging Medical Flexibles
A-L-S Technologies, Inc.
American Dental Technologies, Inc.
Americare Medical
Angott Medical Products
ARC Healthcare
ATEK Medical
Autocam Medical
AvaCore Technology
Axsys Technologies
Bayer Corporation
B C & F Tool Co., Inc.
Beaumont Research Institute
Beaumont Technology Usability Center
Becker Orthopedic
Beckman Coulter
Betterform
Biomedical Diagnostics
Birchbrook Technologies
Blaze Medical Devices, LLC
BPM Therapy
CardiArc
Cardinal Health
Ceradyne Inc.
Cielo MedSolutions
CJPS Medical
Comfort CPM
Contemporary Medical, Inc.
Contour Fabricators
Covalent Medical
Critical Signal Technologies
Custom Biogenic Systems
Cybernet Medical Systems
DaVita, Inc.
Destination Medical
Detroit Technical Equipment
Diamond General Development Corp.
Di-Coat Corp.
DornerWorks
DOW Chemical Co.

EHIM
Elite Plastic Products
Farnell Equipment Co.
Fleetwood Group
GE Materials
gloStream
Great Lakes Diagnostics
G-WIZ
Health Dimensions Compounding Pharmacy
Henry/-Schein, Inc.
Homedics
H & T Medical Solutions
Hytech Spring & Machine
Infusystem
Innovational Therapeutics
Innovative Bio Therapies
Innovative Solutions
Innovative Surgical Solution
Interphase Implants
Intrepid World Communications
J&B Medical Supply Co., Inc.
Jabil Circuits
Johnson & Johnson
Kevin Odle and Associates
Koch's Orthotics and Prosthetics
L'VAD Technology
LaMed, Inc.
Lumigen, Inc.
Lynn Medical
MC3, Inc.
MedBio
MedicalVerify
Med Image, Inc.
Medi-Nuclear Corp.
Medtronic
Michigan Diagnostics
Midbrook
Miller Tool & Die
Mol-Son
Monal Labs, Inc.
MOPEC
MRI Institute
Neurogenic Technologies
Neural Intervention Technologies
NeuroNexus Technologies
Omega Plastics

Omni Medical Supply
Optim
Orchid Bio Coat, Inc.
Orchid Stealth Orthopedics
Osmic, Inc.
Oxid Corp.
OXUS
Panther Global Technologies
Philips Electronics N.A.
Prosthetics Unlimited
PTI Engineered Plastics
RADAR Medical Systems
Rankin Biomedical Corp.
Re-Contour LLC
Regulatory Affairs Associates
RG Medical Diagnostics
Rigaku Innovative Technology
RJL Systems
Rockwell Medical Technologies
SIMEK
Somanetics Corp.
Sonetics Ultrasound
Sterility
Stryker Corp.
Sun Medical
Symmetry Medical
TD Industrial Coverings
Terumo Cardiovascular Systems Corp.
Tk Holdings
Total Life Concierge
Traxx Mobility Systems
TRE
Troy Biologicals, Inc.
Troy Polymers
TwoWorks LLC
Valid Health Care Equipment
Valor Solutions
Vechtech
Wright & Filippis, Inc.
Xoran Technologies

Green - Oakland County Companies
Blue - Southeast Michigan Companies
Black - Michigan Companies

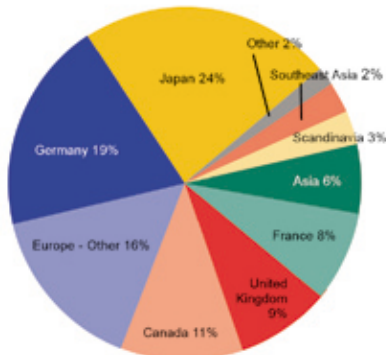
Oakland County Can Help Your Business

The Economic Development Team offers assistance in:

- ◆ Site location
- ◆ Financing
- ◆ Tax Incentives
- ◆ Liaison with state and local agencies
- ◆ Workforce development
- ◆ Business Assistance Center (business consulting)
- ◆ Demographic products – to ensure you make the right decision for your company’s location

Oakland County is an International Hub

Foreign firms make the strategic decision to locate in Oakland County because of our highly skilled work force, strong educational systems and the international support available to them.



- ◆ More than 700 foreign-owned firms from 37 countries – with more than 900 business locations – are located in Oakland County
- ◆ 19 school districts and three consortium schools in Oakland County offer Mandarin Chinese language programs



L. Brooks Patterson,
Oakland County Executive

*With the support of
The Oakland County Board
of Commissioners*

- ◆ Oakland County has more than 93,000 people in the labor force comprised of professional, scientific and technical services skills
- ◆ Oakland County International Airport is one of the busiest corporate airports in the United States, with more than half a million passengers annually

Oakland County is Strategically Located



- ◆ Centrally located between Chicago, Toronto and Cleveland
- ◆ Oakland County is strategically positioned to capture the entire Midwest market
- ◆ The Michigan-Ontario border is the busiest U.S.-Canada crossing in the country, making this area an ideal location to reach the United States and Canadian markets
- ◆ Ontario, less than an hour’s drive from Oakland County, generates 40 percent of Canada’s total domestic product



Contact us today for more information:

Oakland County Department of Economic Development & Community Affairs

2100 Pontiac Lake Road, Building 41 West
Waterford, Michigan 48328
Phone: (248) 858-8706 | Fax: (248) 975-9555

Website: www.MedicalMainStreet.org

Oakland County’s Medical Main Street Contact is:
David Schreiber, Chief Strategist

Email: schreiberd@oakgov.com
Phone: (248) 858-0792

Medical Main Street Medical Devices & Instrumentation

The brainchild of Oakland County Executive L. Brooks Patterson, Oakland County's Medical Main Street initiative is a one-of-a-kind alliance. The program brings together world-class hospitals, universities, medical device companies and some of the country's top medical professionals creating a global center of innovation in health care, research and development, education and commercialization in the life sciences industry.

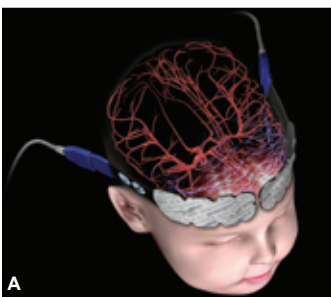
Oakland County is home to a medical technology marketplace. We focus on emerging companies that look to commercialize anything from the latest diagnostic tool, creative applications in the world of pharmaceuticals and providing the most advanced health care in the nation. With a strong history and an eye towards the future, medical devices and instrumentation companies can get a competitive edge by locating or expanding their operations in Oakland County.

Organizations That Support The Medical Devices & Instrumentation Industry:

- ♦ Automation Alley – Southeast Michigan's Regional Technology Cluster
- ♦ Beaumont's National Surgical Learning Center
- ♦ Karmanos Cancer Institute
- ♦ Michigan Manufacturers Association
- ♦ Michigan Research Institute
- ♦ MMTC – Michigan Manufacturing Technology Center
- ♦ MRI Institute for Biomedical Research
- ♦ National Center for Manufacturing Sciences (NCMS)
- ♦ National Institute of Industrial Technology (NAIT)
- ♦ Society of Manufacturing Engineers
World Headquarters

Background & Industry Trends:

- ♦ Life Sciences in Michigan is a \$2 billion industry
- ♦ Michigan ranks second in the nation in R&D spending
- ♦ Oakland County has 46 percent of Michigan R&D facilities
- ♦ Michigan companies file over 3,000 patents a year placing Michigan in the top 10 states for total number of patents granted
- ♦ Over 40 percent of Oakland County residents have college degrees (national average is about 26 percent)
- ♦ Oakland County has the third highest number of high-tech workers in the nation and twice the corporate R&D professionals compared to the national average
- ♦ Population of Michigan's work force: 5.1 million
- ♦ 15 public universities, 60 independent universities and colleges, 30 community colleges statewide
- ♦ Over 96,000 college degrees are granted every year in Michigan
- ♦ 2 ½ times the number of master's degrees are issued in Michigan than the national average
- ♦ Over 1,800 Ph.D.s are granted in Michigan every year – almost twice the national average
- ♦ Michigan is third in the nation with the number of engineering degrees issued (last year 6,032 engineering degrees were granted)



Photos courtesy A & B – Somanetics, C – Novalis, D – Henry Ford Hospitals

Research Programs at Michigan Colleges & Universities

Central Michigan University

- ◆ The Brain Research & Integrative Neuroscience (BRAIN) Center

Eastern Michigan University

- ◆ Center for Product Research & Development Orthotics and Prosthetics Laboratory

Kettering University

- ◆ Biomechanics and Bioengineering Laboratory
Orthopaedic Biomechanics Laboratory

Lawrence Technological University

- ◆ Biomedical Engineering Laboratory
- ◆ Center for Advanced Materials

Michigan State University

- ◆ Biomedical Engineering Enterprise

Oakland Community College

- ◆ Customized Medical Device Programs and Certificates

Oakland University

- ◆ Eye Research Institute
- ◆ Center for Biomedical Research
- ◆ Nanotech Institute

University of Michigan

- ◆ Orthopaedic Research Laboratories
- ◆ Human Motion Simulation Laboratory
- ◆ Center for Neural Communication Technologies

Wayne State University

- ◆ Bioengineering Center
- ◆ Research and Technology Center
- ◆ Brain Imaging Research Division
- ◆ Smart Sensors and Integrated Microsystems (SSIM)

Western Michigan University

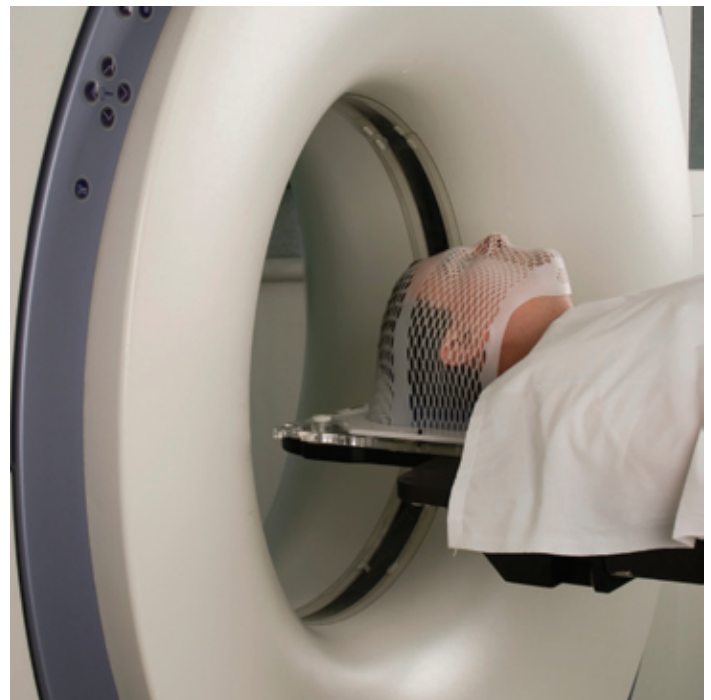
- ◆ Biological Imaging Center

Green – These colleges and universities are either located in Oakland County or have campuses in Oakland County.

Michigan Incentives

- ◆ **International Business Center:** Three months of free office space, including equipment support, at Automation Alley's headquarters in Troy, Michigan
- ◆ **Food & Drug Administration (FDA) Assistance:** Introduction to FDA consultants that are in our region to help you through the FDA regulatory process
- ◆ **National Institute of Health (NIH) Grant Matches:** Michigan, through the Emerging Technology fund, offers matches to Michigan companies that are applying for federal NIH grants
- ◆ **Tax Abatements:** If you are bringing manufacturing to Michigan/U.S.A., we will help you get a 50 percent tax abatement on all the machinery and equipment you will be using for your production facility
- ◆ **Financing:** We have a variety of loan programs that we make available to pharmaceutical/biotech companies to help with both working capital and fixed asset financing
- ◆ **Liability Protection:** Introduction to health care law firms locally to help you analyze the risk of your product here and to help you get the appropriate insurance coverage on your company and your products to avoid future patient liability
- ◆ **Venture Capital:** We have a growing venture capital community in Michigan, and we would be happy to help make introductions for you with the various Venture Funds here in Michigan

Oakland County staff will coordinate all incentive packaging for your business.



Research Projects at Michigan Universities – (Partial List)

- ◆ Software development for designing DNA diagnostics
- ◆ Highly effective oocyte/embryo cryopreservation medium
- ◆ Implantable Device Technology
- ◆ New immunosensor techniques
- ◆ Molecular therapies
- ◆ Myocardial infarction repair methods and systems
- ◆ On-demand local drug delivery systems
- ◆ Biomedical sensors and instrumentation
- ◆ An integrated microfluidic device to sort motile sperm from non-motile sperm
- ◆ Implant bio telemetry
- ◆ Anterior spinal fixation devices
- ◆ Material properties of menisci, tendons and ligaments
- ◆ Implant structural materials, design and testing
- ◆ Bone stresses for hip fractures
- ◆ Biomechanics of musculoskeletal function and dysfunction
- ◆ Diagnosing articular joint pathologies via non-invasive, acoustical methods
- ◆ Trauma biomechanics
- ◆ Biosensors for biomedical applications, tissue engineering
- ◆ Mechanotransduction and osteoporosis
- ◆ Orthopaedic biomechanics
- ◆ Method to evaluate metabolism of the eye
- ◆ Flexible neural probes
- ◆ Prevention of cisplatin-induced deafness
- ◆ Anti-C5a for the treatment of sepsis
- ◆ Medication administration machine
- ◆ A biodegradable implant for intertransverse process fusion
- ◆ Design and fabrication of stents using planar metal foils
- ◆ Multi-function endoscope apparatus
- ◆ Method and assembly for performing ultrasound surgery using cavitation
- ◆ New highly porous materials for tissue repair/ engineering
- ◆ Compliant SMA micro-manipulators for an ultrasonic imaging system of intravascular intervention
- ◆ 3-D acoustic microscopy using short pulse laser excitation
- ◆ Femtosecond lasers for ultrafast optical science
- ◆ Robotic arms used for breast exams



Photo courtesy of Somanetics



Photos courtesy of Henry Ford Hospitals