STUDENT EVENT OVERVIEW & CAREER PLANNING RESOURCES 2018
MiCareerQuest Southeast 2018 showcased in-demand occupations in four career quadrants:

- Advanced Manufacturing
- Construction
- Health Sciences
- Information Technology

Each quadrant featured a variety of rewarding jobs that have a talent shortage today — and have even greater demand projected for the future.
2018 Occupations & Companies
as of 11/12/18

**ADVANCED MANUFACTURING**

- **Additive Machining Specialist**
  Hi-Tech Mold & Engineering

- **Additive Manufacturing (3D Printing)**
  Washtenaw Community College

- **Advanced Manufacturing — Additive Manufacturing**
  SME

- **Advanced Materials**
  SME

- **Application Engineer**
  Comau LLC

- **Applied Technology Training**
  Applied Technology Systems

- **Automation**
  SME

- **Automation/Mechatronic Technician**
  Brose and Henry Ford College

- **Automotive Technician**
  Federal-Mogul Motorparts

- **Auto Service Technician**
  Oakland Community College and Mopar Cap Local / Fiat Chrysler Automobiles

- **Aviation Maintenance Technician**
  MIAT College of Technology

- **CAD Design**
  Complete Automation

- **Clay Sculpting**
  General Motors – Design

- **CNC Machinist/Programmer**
  Hi-Tech Mold & Engineering

- **CNC Operator**
  Hurco Company, Braun Machinery and Oakland Community College

- **Coding**
  Magna International

- **Computer Numerically Controlled (CNC) Programmer**
  Siemens

- **Controls Engineer**
  Comau LLC

- **Design Engineers**
  Complete Automation

- **Die Maker**
  United Auto Workers (Fiat Chrysler Automobiles)

- **Digitalization**
  General Motors – Design

- **Digitalization**
  Siemens

- **Electrician**
  United Auto Workers (Fiat Chrysler Automobiles)

- **Electro-Mechanical**
  MIAT College of Technology

- **Fabrication**
  Washtenaw Community College

- **Fluid Power**
  Exotic Automation & Supply

- **Furnace Operator**
  Applied Process, Inc.

- **Industrial Automation and Control**
  Lawrence Technological University

- **Machine Repair**
  United Auto Workers (Fiat Chrysler Automobiles)

- **Machining**
  SME

- **Millwright**
  United Auto Workers (Fiat Chrysler Automobiles)

- **Mold Designer**
  Hi-Tech Mold & Engineering

- **Mold Maker**
  Hi-Tech Mold & Engineering

- **Pipefitter**
  United Auto Workers (Fiat Chrysler Automobiles)

- **Product Testing Engineer**
  DASI Solutions

- **Programmable Logic Controller (PLC)**
  Siemens
Quality Control / Quality Technician
Wenzel America Ltd

Robotics
FANUC America Corporation
Integrated Systems Technologies

Robotics Engineer
Comau LLC

Robotics Programmer
Comau LLC

Shop Technician
Gardner White

Skilled Trades
General Motors – Design

Software Engineer
Comau LLC

STEM with an Emphasis on Engineering
Oakland University

Tool & Die Technician
Hurco Company, Braun Machinery and Oakland Community College

Tool Maker
United Auto Workers (Fiat Chrysler Automobiles)

Trainer Engineer
Federal-Mogul Motorparts

Welding (Miller Electric Welding Simulation)
Applied Technology Systems

Welding
Washtenaw Community College

CONSTRUCTION

3D Modelers
Barton Malow

Architect
Fishbeck, Thompson, Carr & Huber, Inc.

Architectural Technician
Henry Ford College

Bricklayer
Bricklayers and Allied Craftworkers (BAC) Local 2

Builder
Henry Ford College

CAD Draftsman
Hubbell, Roth & Clark, Inc.

Carpenter
Michigan Statewide Carpenters and Millwrights

Cement Mason
Bricklayers and Allied Craftworkers (BAC) Local 2

Construction Craft Laborer
Michigan Laborers Training and Apprenticeship Institute

Construction Electrician
Detroit Electrical Industry Training Center

Construction Engineers
Barton Malow

Construction/Excavation
Oscar W. Larson Company

Construction Innovation & Safety
Construction Association of Michigan (CAM)

Construction Inspector
Hubbell, Roth & Clark, Inc.

Construction Manager
Auch Construction

Civil Field Technician
Fishbeck, Thompson, Carr & Huber, Inc.

Crew Lead
Oakland County Water Resources Commissioner, Oakland County Facilities Management, and Oakland County Parks

Disaster Restoration
Belfor

Electric Field Operations
DTE Energy

Electric Lineworker
Consumers Energy

Electrical
Oscar W. Larson Company

Electrical Trades
Oakland County Water Resources Commissioner, Oakland County Facilities Management, and Oakland County Parks

Energy Efficiency
Consumers Energy

Engineer
DTE Energy

Fleet Operations
Consumers Energy

Fuel Services Technician
Oscar W. Larson Company

Gas Line Worker
Consumers Energy
General Contracting
Oscar W. Larson Company

General Maintenance
Oakland County Water Resources Commissioner, Oakland County Facilities Management, and Oakland County Parks

Heavy Equipment Mechanic
City of Farmington Hills Public Works

Heavy Equipment Technician
Operating Engineers 324/ Michigan CAT Heavy Equipment

HVAC
Pipefitting Industry Training Center

HVAC
Sheet Metal Workers Local 80 Training Center

HVAC Project Manager
Henry Ford College

HVAC-R
Oscar W. Larson Company

Interior Designer
Henry Ford College

Iron Worker
Operating Engineers 324 and Iron Workers Local 25 Training Center

Laborer
City of Farmington Hills Public Works

Line Clearance (Tree Trimmer)
DTE Energy and IBEW Local 17

Occupational Safety Professional
American Society of Safety Professionals

Operating Engineer
Operating Engineers 324 and Iron Workers Local 25 Training Center

Overhead Line Worker
DTE Energy

Pipefitting
Pipefitting Industry Training Center

Plumber
Plumbing Industry Training Center

Property Management and Maintenance
Paragon Properties Company

Public Works Equipment Operator
City of Farmington Hills Public Works

Roofer
Roofers Local #149 Joint Apprenticeship Fund

Sheet Metal Worker
Sheet Metal Workers Local 80 Training Center

Sound & Communication Installer Technician
Detroit Electrical Industry Training Center

Surveyor
DTE Energy

Surveyor
Fishbeck, Thompson, Carr & Huber, Inc.

Surveyor
Hubbell, Roth & Clark, Inc.

Technicians
Barton Malow

Tile Setter
Bricklayers and Allied Craftworkers (BAC) Local 2

Truck Driver
Michigan Center for Truck Safety and International Trucking School

Truck Driver
U.S. Truck Driver Training School and Voyager Express

Underground Line Worker
DTE Energy

Virtual Design
Barton Malow

Wildlife Biologist
DTE Energy

Wind Turbine Technician
DTE Energy

HEALTH SCIENCES

Applied Behavior Analysis Therapy for Treatment of Autism Spectrum Disorder (ASD)
University Pediatricians Autism Center

Biomedical Engineering Technician (BMET)
Barton Malow

BSN
Davenport University

Cardiac Cath Nurse
Ascension St. John Hospital

Certified Nurse Aide -- Sterile Processing
Washtenaw Community College

Certified Nurse Assistant (CAN)
Dorsey Schools

Certified Occupational Therapy Assistant
Barton Malow

Certified Registered Nurse Anesthetist
Barton Malow

Certified Registered Nurse Anesthetist
Beaumont Health
Clinical Laboratory Scientist
Ascension Michigan Laboratories

Dental Assistant
Dorsey Schools

Dental Hygienist
Dorsey Schools

Diagnostic Medical Sonographer
Beaumont Health, GE, and Oakland Community College

Emergency Medical Services (EMS)
Alliance Mobile Health and Dorsey Schools

Emergency Medical Technician (EMT)
Alliance Mobile Health and Dorsey Schools

Emergency Medical Technician (EMT)
Livingston County EMS

Emergency Medical Technician (EMT)
McLaren Oakland

Emergency Medicine Physician
Ascension St. John Hospital

Emergency Service Technician (EMT)
Dorsey Schools and Alliance Mobile Health

Facilities Management Electrician
Beaumont Health and Shaw Electrics

Firefighter
Dorsey Schools and Alliance Mobile Health

Firefighter
Oakland Community College, CREST, and Alliance Mobile Health

Histology & Cytogenetics Technologist
Beaumont Health

Infection Control and Public Health
Oakland County Health Division

Laboratory Technician
Ascension St. John Hospital

Licensed Practical Nurse (LPN)
Davenport University

Licensed Practical Nurse (LPN)
Dorsey Schools

Medic
Oakland Community College, CREST, and Alliance Mobile Health

Medical Assistant
Dorsey Schools

Medical Assistant
Henry Ford Health System/ Medical Group

Medical Laboratory Assistant
Ascension Michigan Laboratories

Medical Laboratory Scientist (Microbiology & Molecular Pathology Chemistry & Hematology)
Beaumont Health

Nursing Careers
Beaumont Health and Laerdal Medical

Occupational Therapist
Beaumont Health

Paramedic
Alliance Mobile Health and Dorsey Schools

Paramedic
Ascension St. John Hospital

Paramedic
Dorsey Schools and Alliance Mobile Health

Paramedic
Livingston County EMS

Perioperative Nurse
Beaumont Health

Pharmacist
Beaumont Health

Pharmacy Technician
Beaumont Health

Pharmacy Technician
Dorsey Schools

Pharmacy Technician
Walgreens

Physical Therapist
Beaumont Health and Biodex Medical Systems

Phlebotomist
Beaumont Health

Phlebotomist
Dorsey Schools

Physical Therapy Assistant
Beaumont Health and Biodex Medical Systems

Physician
Oakland University’s William Beaumont School of Medicine and Beaumont Health

Priority Health Wellness Group
Spectrum Health

Registered Nurse
Ascension St. John Hospital

Radiologic Technologist
Beaumont Health, GE, and Oakland Community College
Research Scientist
Oxford Biomedical Research, Inc.

Respiratory Therapist
Beaumont Health and Oakland Community College

Sterile Processing Technician
Saint Joseph Mercy Health System

Surgical Technologist
Beaumont Health

Surgical Technology
Baker College of Clinton Township

Technician
Ascension St. John Hospital

Technical Specialist/Laboratories
Ascension Michigan Laboratories

Telemetry Monitoring Technician
Beaumont Health and GE

Veterinarian
Macomb Community College Veterinary Technician Program

Veterinary Technician
Macomb Community College Veterinary Technician Program

INFORMATION TECHNOLOGY (IT)

Application Developer/Coding
NewFoundry

Audio Engineering Applications
Lawrence Technological University

AutoCAD
Oakland County - Geographical Information Systems

Automotive Cyber Security
Washtenaw Community College

Automotive Engineer
SMART - Suburban Mobility Authority for Regional Transportation

Automotive Technician
Washtenaw Community College

Cinematography Art
Motion Picture Institute

Computer Modeling
INDUCTOHEAT

Computer Science
Wayne State University

Cyber Security
Ann Arbor SPARK, Mcity

Cyber Security
MADCAT, The NEXT Education

Cyber Security
Michigan Air National Guard

Cyber Security / Technology
DSDT, a Detroit School for Digital Technology

Drone Pilot
Alpena Community College

Heavy/Light Equipment Operators
City of Rochester Hills

Information Technology (IT)
Ann Arbor SPARK, Mcity

Information Technology (IT)
Oakland County - IT /CLEMIS (Police, Courts and Fire)

Information Technology (IT) Innovation
SMART - Suburban Mobility Authority for Regional Transportation

Information Technology (IT) Innovation
Washtenaw Community College

Information Technology (IT) Solutions
Weldon Enterprise Global IT, LLC

Information Technology (IT) Technical Support
Genisys Credit Union

Logistics
Waste Management

Mobile App Developer/Coding
NewFoundry

Mobility Engineering
Ann Arbor SPARK, Mcity

Software Developer
Gravity Works Design & Development

STEM/STEAM Programmer and Instructors
AccelerateKID®

Technical Support & Help Desk
Kelly Services

Telemedicine - IT Technician
HNC Virtual Solutions and J & B Medical Supply Company, Inc.

Transportation Engineering
Ann Arbor SPARK, Mcity

Video Editor
Specs Howard School of Media Arts

Web Developer/Coding
NewFoundry
The Power of You Knowing You

Whether you have known what career you wanted since you were a kid or you are still exploring the possibilities for your future career, this section will be helpful to you.

These resources will support your quest in you knowing more about you – and that knowledge is power. Power to make a career choice that will bring you success and satisfaction in your life.

What do you like to do? What are you good at? How do you get those answers to align with a great occupation?

If you haven’t set up a Career Cruising login at your school, do that as soon as you can by working with your counselor or at the career center at your school. The Matchmaker, My Skills and Career Selector assessments are great. Plus, you can research careers.

Dig deeper and take a look at these other sites:

My Next Move ONET Interest Profiler
mynextmove.org/explore/ip

Career One Stop Interest Assessment
careeronestop.org/toolkit/careers/interest-assessment.aspx

Personality and Career Tests
truity.com

Remember, your teachers and counselors are there to help you succeed, well after MiCareerQuest is over. They can help you with subjects you might not even have thought of yet, like:

- How to Create a Positive Personal Brand
- The Importance of Networking and Creating a LinkedIn Profile
- Writing a Resume and Cover Letter
- Interviewing Skills
Career Planning Resources Online

Apprenticeships
miapprenticeship.org

Apprenticeship Book

Career Exploration
pathfinder.mitalent.org

Career One Stop
careeronestop.org

Career Resources
oakgov.com/advantageoakland/mi-tradeschool/apps/Pages/Explore-Careers.aspx

Department of Labor Apprenticeship Information

Going Pro
mitalent.org/skilled-trades

Hot Jobs in Michigan
milmi.org/research/michigans-hot-50-for-2024-3

Internships
mitalent.org/internships

MI Bright Future
(NOTE: You have to login into your Career Cruising account at school to access MI Bright Future.)
mibrightfuture.org

Michigan Labor Market Information
milmi.org

Oakland County Hot Jobs
oakgov.com/advantageoakland/resources/Documents/ON_OaklandCountyHotJobs_4up.pdf

Oakland County Labor Market
oakgov.com/advantageoakland/resources/Documents/dat_lmiprof.pdf

Oakland Schools Technical Campuses
ostconline.com

Occupational Outlook Handbook
bls.gov/ooh
ONet Online
onetonline.org

Skilled Trades
oakgov.com/advantageoakland/mi-tradeschool/Pages/default.aspx

Start Your Path Here Career Events Calendar
mitalent.org/calendar

Regional Hot Jobs
milmi.org/research/regional-hot-jobs-for-2024

VIDEOS
Going Pro in Skilled Trades
youtube.com/watch?time_continue=2&v=IMg6I2BikPo

14 Key Skills for Workplace Success
mitalent.org/elearning-soft-skills-program
Livingston
Brighton High School
Clinton High School
FlexTech High School - Brighton
Fowlerville High School
Hillsdale Area Career Center/Jackson College
Howell High School
Kensington Woods Schools
Pinckney High School
Hartland High School

Macomb
Anchor Bay High School
Armada High School
Armed High School
Center Line High School
Center Line High School
Chippewa Valley High School
Clintondale High School
Dakota High School
Fitzgerald High School
Fraser High School
Frederick V. Pankow Center
Lake Shore High School
Lakeview High School
Lakeview High School
Lincoln High School
Mohegan High School
Mount Clemens High School
New Haven High School
Romeo High School/MRS
Romeo High School/RETC
South Lake High School
Utica Community Schools
Warren Woods Tower High School

Monroe
Airport High School
Monroe High School
Riverside Academy

Oakland
AGBU Manoogian School
Aim High School
Athens High School
Avondale Academy
Avondale High School
Berkley High School
Bloomfield Hills High School
Brandon High School
Clarkston High School
Eaton Academy
Farmington Central High School
Farmington Public Schools
Ferndale High School
Hazel Park High School
Holly High School
Lake Orion High School
Lakeland High School
Lampshire High School

Registered Schools

Learning Options High School (Lake Orion)
Madison High School
Mercy High School
Milford and Lakeland High Schools
Novi Career Prep High School
Novi High School
Oak Park High School
Oxford High School
Pontiac Academy for Excellence
Renaissance Clarkston High School
Rochester High School
Royal Oak High School
South Lyon East High School
South Lyon High School
Southfield A & T/University/Southfield Regional High School
Southfield Regional Academic Campus
Tri County Education Center
Troy College & Career High School
University High School
Upland Hills School
Walled Lake Central High School
Walled Lake Northern High School
Walled Lake Western High School
Waterford Durant High School
Waterford Kettering High School
Waterford Mott High School

Washtenaw
Dexter High School
Whitmore Lake High School
Ypsilanti Community High School

Wayne
Advanced Technology Academy
Annapolis High School
Ben Carson High School of Science & Medicine
Breithaupt Career and Technical Center
Chandler Park Academy High School
Clarenceville High School
Davis Aerospace Technical High School
Divine Child High School
Fordson High School
Garden City High School
George Washington Carver Academy
Golightly Career and Technical Center
Hamtramck High School
Harper Woods High School
Livonia Career Technical Center
Northville High School
Randolph Career and Technical Center
Robichaud High School
Romulus High School
Star International Academy
Starkweather Academy
Summit Academy North High School
Taylor School District
Universal Learning Academy
Universal Learning Academy
Veritas Alternative Ed
William D. Ford Career Technical Center
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PRESENTING

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DTE Energy  Michigan Building and Construction Trades Council
MUST  Management & Unions Serving Together

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CONSTRUCTION
BELFOR
IBEW Local 17
Paragon Properties
Michigan Regional Council of Carpenters
Construction Association of Michigan
Operating Engineers 324
Michigan CAT

HEALTH SCIENCES
Alliance Mobile Health
Dorsey Schools
Henry Ford Health System
McLaren Oakland
Medical Main Street

INFORMATION TECHNOLOGY
Genisys Credit Union
INDUCTOHEAT
SMART
Tech248
Good Luck with Your Career Exploration and Planning!

For more information, visit
OakGov.com/MiCareerQuestSE

Facebook: Michigan Career Quest Southeast
Twitter: @MiCareerQuestSE
Instagram: @MiCareerQuestSE

#MiCareerQuestSE

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