

NCR 101 Station Report
Greenhouse Engineering
Division of Alex Turkewitsch, P.Eng. Ltd.

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Company Profile

Greenhouse Engineering is a Canadian company specializing in engineering services for the commercial, institutional, and research greenhouse industries. Greenhouse Engineering offers services ranging from planning, feasibility studies, greenhouse specialist consulting, and design/build systems.

Our international client list includes architects, greenhouse operators, manufacturers, institutions, governments, research organizations, universities, and bio-technology companies. We design a wide variety of greenhouse facilities, ranging from plant production ranges, garden centres, compartmentalized research greenhouses, conservatories and custom structures.

Our professional design services include structure and cladding, mechanical, electrical and control systems, lighting, shading, cooling, fogging, irrigation, and mechanization. Greenhouse Engineering is also called upon to perform inspections, project management, and engineering evaluations.

Projects in Design Phase

<u>Job Name:</u>	Science Laboratory, UC Davis
<u>Location:</u>	University of California at Davis
<u>Job Description:</u>	Greenhouse Specialist Consultant
<u>Owner:</u>	Tim Metcalf, Plant Biology (530) 752 0569
<u>Prime Consultant:</u>	Zimmer Gunsul Frasca Partnership, Doug Reimer (503) 224 3860
<u>Job Name:</u>	New Rooftop Research Greenhouses
<u>Location:</u>	University of Toronto, ON
<u>Job Description:</u>	Complete greenhouse and systems design
<u>Owner:</u>	University of Toronto, Botany Dept, Dr. John Coleman, Chair (416) 978 3537
<u>Prime Consultant:</u>	Barry Bryan Associates, Dennis Bryan (905) 666 5252
<u>Job Name:</u>	Biogrowth Systems, Inc.
<u>Location:</u>	Johnston, IA
<u>Job Description:</u>	Specifications and bid documents- 10 acre sweet pepper greenhouse production facility
<u>Owner:</u>	Biogrowth Systems, Inc., Ron Evans, P.Ag. (519) 765 1555
<u>Job Name:</u>	University of Pennsylvania, Life Sciences Quad, Research Greenhouse
<u>Location:</u>	Philadelphia, PA
<u>Job Description:</u>	Greenhouse Specialist Consultant
<u>Architect:</u>	Ellenzweig Associates, Janet Ross, AIA, Principal, Cambridge, MA (617) 491 5575
<u>Job Name:</u>	McGill University, Rooftop Phytotron Renovations and Upgrades
<u>Location:</u>	Montreal, QC
<u>Job Description:</u>	Design-build extensive greenhouse renovations and performance upgrades
<u>Contract with:</u>	McGill University Biology Department Phytotron, Mark Romer, (514) 398-6471

Projects under Construction

Job Name: York University, Biology Department Research Greenhouse
Location: North York, ON
Job Description: Greenhouse Specialist Consultant, 680 m² greenhouse and growth chamber facility
Owner: York University, Peter Thompson, Facilities and Business Operations, (416) 736 2100
Project Manager: Kenaidan Contracting Ltd., Greg Stack (905) 670 2660

Job Name: New BioSciences Building, Rooftop Research and Teaching Greenhouse Facility
Location: Vanderbilt University, Nashville, TN
Job Description: Greenhouse Specialist Consultant, 440 m² Rooftop Greenhouses, 6 compartments
Owner: Vanderbilt University, Jonathan Ertelt, Greenhouse Manager (615) 322 4054
Architect: William Wilson Associated Architects Inc, Nancy Kerber, Boston, MA (617) 338 5990
General Contractor: Centex Rogers Construction Managers, Nashville, TN

Recently Completed

Job Name: Botany Conservatory
Location: University of Toronto, ON
Job Description: Feasibility Study – Relocate Conservatory at a remote Site
Owner: University of Toronto, Property Management, Design and Construction
Julian Binks, Manager, Project Planning (416) 978 5533

Job Name: Illinois College, New Science Building, Rooftop Greenhouse
Location: Jacksonville, IL
Job Description: Value engineering and design review – greenhouse and systems
Architect: Ellenzweig Associates, Shirine Boulos, Associate, Cambridge, MA (617) 491 5575

Job Name: Replacement Greenhouse Complex, Atlantic Cool Climate Crop Research Centre
Location: AAFC, St. John's NF
Job Description: Feasibility study, 320 m² research greenhouse facility
Contract with: PWGSC, Paul McDonald, St. John's, NF (709) 772 3090

Job Name: Aventis Crop Science Greenhouse Renovation
Location: Aventis Crop Science, Research Triangle Park, NC
Job Description: Design/build 330 m² sub irrigation benching system
Owner: Aventis Crop Science, Stephen Lee, Greenhouse Manager (919) 549 2794
Architect: Arcadis, Garaghty, Miller, John Gardiner, Raleigh, NC (919) 782 5511
General Contractor: Clancy & Theys Construction Co., Harry Stallings, Raleigh, NC (919) 834 3601

Job Name: Scapeart Inc.
Location: Lafayette, IL
Job Description: Design greenhouse electrical system for greenhouse garden centre
Contractor: Link Management, Brian Elmore (765) 742 9030
Architect: Wertheim, VanderPloeg & Klemeyer, Architects, SF, CA, Ernest Wertheim (415) 664 0832

Job Name: Agri-Starts, Inc.
Location: Apopka, FL
Job Description: Greenhouse electrical and drainage system design - 5300 m² commercial greenhouse
Owner: Randy Strode, President (407) 889 8055

Job Name: New Science Building, Rooftop Research Greenhouse Facility
Location: Rowan University, Glassboro, NJ
Job Description: Greenhouse Specialist Consultant, 112 m² Rooftop Greenhouses, 3 compartments
Owner: Rowan University, Phyllis Forbes, Vice President, Glassboro, NJ (856) 252 4336
Architect: Ellenzweig Associates Inc, Michael Lauber, Principal, Cambridge, MA (617) 491 5575

Job Name: Cereon Genomics New Research Facility
Location: Cambridge, MA
Job Description: Design/build multi-tiered sub irrigation system for 10 Conviron controlled environment growth rooms, 280 m² floor area, 440 m² growing area
Owner: Cereon Genomics, Jennifer Bush, Cambridge, MA (617) 551 8212
Growth Room Manufacturer: Conviron Ltd., David Brault, Winnipeg, MB (204) 786 6451