

# Joel Tallaksen

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## Objective

Employment in a position in the environmental consulting field that utilizes my knowledge of environmental science to enhance environmental safety and improve the environment.

## Education

### Doctor of Philosophy: Plant Biological Sciences

1995 -2002 Univ. of Minnesota, College of Biological Science St. Paul, MN

### Bachelor of Science: Genetics & Cell Biology, Plant Biology

1987 - 1993 Univ. of Minnesota, College of Biological Science St. Paul, MN

## Summary of Qualifications

### Technical Specialist

2005- Current Hild & Associates Inc. River Falls, WI

Present the firm's products and services at industry and client meetings. Generate CAD drawings to demonstrate erosion control product application and specifications. Produce and package organic flocculants used in the erosion control industry. Create and review scientific, technical, and public documents related to the firm's activities. Evaluate potential new materials, technology, and applications in habitat reconstructions. Assist in various aspects of native plant production including; planting, watering, fertilization, disease assessment, pesticide application, and transplantation.

### Environmental Microbiology Manager

2003-2005 EMSL Analytical Inc. Minneapolis, MN

Directed the daily activities in an environmental microbiology laboratory. Analyzed environmental samples for fungal spores and air-borne contaminants. Trained employees to analyze samples according to standard operating procedures. Implemented new/improved QA/QC testing and standard operating procedures. Maintained cultures of common fungal contaminants. Served as a focal point for clients requesting information or inquiring on the results of tests.

### Research Assistant- Restoration Ecology

1997 - 2001 University of Minnesota, Department of Plant Biology St. Paul, MN

Designed and implemented a tallgrass prairie restoration study examining the affects of mycorrhizal fungal amendments on the restoration community. Documented plant and soil features at Minnesota Department of Transportation roadside prairie/wetland restoration and mitigation sites. Directed student assistants in environmental testing and other research techniques. Analyzed plant, soil, and hydrologic factors influencing the developing plant community. Reported research findings and mitigation strategies to government and scientific organizations.

### Teaching Assistant- General Biology

1995 - 1997 University of Minnesota, General Biology Program Minneapolis, MN

Instructed Biology lab groups of between 15 and 25 students using both pre-produced and self-developed course content. Created, presented and maintained audio/visual material. Tutored students having difficulty with course material. Assisted faculty in producing new audio/visual content for their lectures and presentation.

### Agricultural Worker

1980-1987 Family Farm/Self Employed Lennox, SD

Assisted in the day-to-day operation of a diversified farm. Responsible for maintaining a farrow to finish hog production system. Assessed the need and feasibility of horticultural operations such as pre-planting field preparation and weed control. Operated and maintained a wide variety of large and small machinery. Constructed and repaired facilities and equipment.

**Professional Memberships**

Minnesota Native Plant Society

**Accreditations**

Web Certified Teaching Assistant, Univ. of Minn.  
YMCA open water SCUBA certification

**Awards received**

Special Recognition, Vegetation Management Association of Minn.

**Scientific Experience**

Environmental Sciences

- Landscape Management
- Habitat Assessment
- GIS/GPS
- Restoration/Remediation

Botanical

- Taxonomy
- Plant Disease Assessment
- Propagation

**Computer Experience**

Program Proficiency

- Microsoft Office Suite
- Microsoft FrontPage
- Corel Draw
- Adobe Graphics Package
- AutoCAD LT

GIS Packages

- ArcView
- ArcInfo

**Publications**

Papers Authored or Co-Authored

- Tallaksen, J., 2002 Nutrient and Arbuscular Mycorrhizal Amendments in Prairie Restoration, Ph.D. Thesis, University of Minnesota, St. Paul, MN
- Charvat, I., J. Tallaksen, J. White, H. Agwa, M. Raley, S. Slack, J.A. Heberger, E. Gould. 2000. Mycorrhizal/plant factors involved in roadside reclamation. Minnesota Department of Transportation, St. Paul, MN
- Charvat, I., M. Smith, J. White, H. Agwa, J. Tallaksen, L. Gould. 1998. Roadside prairie and wetland restoration: mycorrhizal/plant factors. Minnesota Department of Transportation, St. Paul, MN

Presentations, Lectures, Talks

- Tallaksen, J. 2000. Commercial mycorrhizal inoculation in urban soils. Invited speaker at Ecology of Urban Soils, An American Phytopathological Society sponsored conference. St. Paul, MN.
- Tallaksen, J., and I. Charvat. 2000, Revegetation of a Constructed Roadside Water control Pond with Native Prairie Plant Species. MinnesotaWater 2000. Minneapolis, MN