

# Gina M. France

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## **OBJECTIVE**

To obtain a full-time position in the field of Geological Engineering focusing on hydrogeology and environmental consulting

## **EDUCATION**

Michigan Technological University, Houghton, MI  
B.S., Geological Engineering, August 2005  
Overall GPA: 2.81 Departmental: 3.11

## **SKILLS**

Computer Software  
Windows, Word, Excel, PowerPoint, GMS 4.0 & 5.1/MODFLOW, Surfer 8, 1X1D, GM-SYS,  
Unix, Seismic Unix, GPS, Arc View GIS 3.3 & 9.0 Certified

## **FIELDWORK**

Water level measurements, SmartSeis Seismic Refraction, GPS, Well log analysis, Fluxgate, Proton Precession, Cesium Vapor, & Electromagnetic (HLEM, VLF, self-potential) Magnetometers, Gravimeter, Ground Penetrating Radar, Surveying

## **PROJECT**

### Aqua Terra Tech

In leading the groundwater modeling team and participating with the fieldwork team in analyzing and preparing a working model of the Silver River Watershed of L'Anse, MI, I have learned to use different types of geophysical equipment as well as the GMS 4.0, 5.1 and MODFLOW modeling programs

The Keweenaw Bay Indian Community (KBIC) is actively acquiring baseline hydrological and water quality information for watersheds in the L'Anse Reservation in Baraga County, Michigan. Aqua Terra Tech was tasked with characterizing the hydrogeological conditions in the watershed and with development of a computer model of the surface and subsurface hydrology. Seasonal home water well levels, shallow seismic refraction, and bedrock outcrops were measured, recorded and mapped by the students to create a hydrogeological database. The database was created using ArcView™, and it is composed of cultural base layers imported from the Michigan Tiger Spatial database as well as layers created specifically for the project. The data are incorporated into a hydrological model using Groundwater Modeling Systems™ software. The characterization results provide KBIC planners with specific information on how water flows in the Silver River watershed. The KBIC planners will use the

information for considering implications of current and future community development on water quality.

## **COURSES**

Geohydrology, Groundwater and Solute Transport Modeling, Reflection Seismology, Graphical Information Systems, Natural Hazards, Depositional Systems, Geomorphology and Glacial Geology, Field Geology, Field Geophysics, Field Trip to Newfoundland and Labrador

## **LEADERSHIP**

American Association of Petroleum Geologists; Member  
Society of Exploration Geophysicists; Treasurer  
Geology Club; Treasurer  
Society of Women Engineers; Member  
Aqua Terra Tech Enterprise; Field Team, Past Modeling Chair  
Alpha Gamma Delta; Vice President, Past Vice President Operations  
Interfraternity Council; Greek Week/Homecoming Chair 2003  
LeaderShape 2004; attendee

## **EMPLOYMENT**

Michigan Technological University Memorial Union Building, Houghton, MI, 2003-Present  
Student Manager (night manager)

- Oversee Student Employees
- Manage Building and Events

## **REFERENCES**

Available upon request