



# Geospatial Technician

## Description

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Sentera is a world leader in drone-based precision agriculture located in Minneapolis, MN. Sentera builds specialized cameras, drones, and software to capture and analyze images of farm fields and provide actionable information to growers and researchers.

Sentera is seeking a full-time candidate with knowledge, experience, and interest in the fields of geospatial data processing and analysis, to apply these skills toward analyzing images of farm fields captured by drones.

You will be a part of the Data Science team, working alongside agronomists, software engineers, and machine learning scientists to quantify what's happening in farmers' fields. Mastery of GIS software such as ArcGIS or QGIS is crucial to this role. Experience with Python, especially GDAL libraries, is a significant advantage.

## Duties

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- Perform a wide variety of tasks related to analyzing georeferenced imagery of farm fields.
- Process sets of images captured by drones to produce georeferenced mosaics (raster data).
- Perform analysis on spatial accuracy of mosaics, and develop methods for improving spatial accuracy.
- Generate custom polygon vector layers based on customer description of field experiment locations for zonal analysis of raster data.
- Perform zonal analysis of raster data.
- Interface with customer to develop data analysis plan and deliver results.
- Work with software engineering team to develop efficient workflows for vector and raster analysis.
- Write python scripts for efficient data processing.
- Fly drones to collect imagery to support new algorithm development.
- Annotate images in support of software algorithm development.

## Qualifications

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- Certificate or Associate's Degree in Geographic Information Systems or similar.
- FAA Part 107 Remote Pilot Certification required. If not currently certified, the candidate must attain FAA Part 107 Certification as a Remote Pilot within 60 days of beginning employment. Certification is easy, and can be attained by studying approximately ten hours and passing a two hour written exam at a small local airport. Sentera will reimburse the exam fee.
- The candidate must be licensed to drive in the US.
- This position is open to candidates now completing their certificate or degree, as well as candidates with 0-5 years of industry experience.



## Skills

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### Required

- Geographic Information Systems (GIS)
- QGIS or ArcGIS
- Vector and raster data processing

### Preferred

- Python
- GDAL

## Details

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Travel: Yes, not to exceed 30%

Worksite location: Main Office in Richfield, MN. Applications to work remotely will not be considered.

FLSA and Job Status: Non-Exempt, Full-Time (typically 40 hours/week, eligible for overtime pay)

## What we Offer

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Full benefit package:

- 100% employee covered medical insurance.
- Additional plan options for family medical coverage at a competitive monthly rate.
- Dental, vision, HSA, FSA, Dependent Care options available.
- 401(K) with a generous 4% company match.

Time off:

- 120 hours PTO at hire
- All U.S. federal holidays are paid time off holidays

## How to Apply

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Apply online at: [www.oasisdeg.com](http://www.oasisdeg.com) using the following username and password:

Username = sentera

Password = applicant

Hiring Manager's Email = [HR@sentera.com](mailto:HR@sentera.com)