



Data Scientist

Working location: Redwood City, California

Full-time employment

About us

TerraBlaster is helping farmers reclaim the value they lose when applying nutrients with imperfect information: billions of dollars in fertilizer that never feeds a crop, missing nutrients that limit yields, and excess nutrients that can leach into waterways. We are the first to deploy technology developed by NASA for Mars to capture precise, real-time, actionable data about plant-available soil nutrients. Soil measurement and application in one pass. Every plant gets exactly what it needs. No extra steps. No wasted time. That's precisely how we build the future of agriculture.

The role

TerraBlaster is seeking a data scientist to expand our data processing pipeline. Have experience in data analytics or machine learning but want to work on something other than getting eyeballs on internet ads? This role is a great opportunity to have a direct impact on our sensor's ability to measure the quantity of plant nutrients in the soil. Improving the accuracy with which farmers can apply fertilizer reduces runoff and greenhouse gas emissions, helping the environment, farmers, and the world at the same time. Join a true Silicon Valley startup to make a difference in the world while being... laser focused (and while improving our laser puns).

What you will be doing

- Modify and expand our machine learning models and statistical models to optimize our Python data processing pipeline, which transforms soil spectra into soil nutrient measurements (no spectroscopy experience required)
- Refine data pre-processing methods, such as normalization and baseline fitting
- Perform data analysis studies to assess and understand new datasets
- Work closely with software engineers, agronomists, and hardware engineers to solve real-world challenges

What we need to see

- BS in Computer Science or a related field (or equivalent experience)
- Strong programming skills in Python and a willingness to learn and improve
- 0–2 years of experience with statistical modeling or machine learning modeling (internship/academic projects are welcome). More senior experience is welcome.
- Excitement and willingness to do whatever is needed in the moment, not just machine learning but tasks like taking out the trash, assisting in software debugging, and occasionally traveling to field sites to understand the environment in which the data is gathered
- Familiarity with Linux environments

**Ways to stand out from the crowd**

- Excellent complex system-level debugging and problem-solving skills
- Self-managing and ability to break down complex problems into manageable tasks
- Experience working in the following areas is a plus but not required: spectroscopy, soil science, statistical modeling & analysis, machine learning

Compensation & Benefits

At TerraBlaster base pay is just one part of compensation. TerraBlaster employees also have the opportunity to become TerraBlaster shareholders by receiving incentive stock options. You will also receive benefits including comprehensive medical and dental coverage.

TerraBlaster is an equal opportunity employer and values diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, sex, gender, gender expression, sexual orientation, age, marital status, veteran status, or disability status.