Hiring Manager,

Land IQ, LLC

Sacramento, CA.

Dear Hiring Manager,

I am excited to apply for the Remote Sensing Scientist position at Land IQ. With over 10 years of experience in geospatial analysis and remote sensing across research and private sectors, I am eager to bring my expertise in agricultural and environmental applications to your team. My background closely aligns with the role’s requirements, particularly in land use monitoring, time series analysis, and machine learning-driven geospatial solutions. My key qualifications include:

* Land Use Monitoring: Developed multi-temporal land cover mapping methods to quantify agricultural land expansion, contributing to multiple peer-reviewed publications.
* Time Series Analysis: Applied phenological approaches in land cover mapping for my dissertation and developed a patented technology for tillage identification using PlanetScope time-series data.
* Image-Based Crop Yield Prediction: Leveraged Sentinel-2 time series in postdoctoral research to map canola yields, leading to publications in Agriculture, Ecosystems & Environment and Precision Agriculture.
* Advanced Geospatial Analysis & GeoAI: Implemented machine learning and deep learning models for land classification, segmentation, and predictive analytics.
* Programming & Large-Scale Analysis: Proficient in Python, R, Arcade, and Google Earth Engine, enabling scalable geospatial data processing.

Beyond technical expertise, I have strong communication skills and the ability to translate complex geospatial concepts into actionable insights—a skill honed through teaching, publishing research, and collaborating across multidisciplinary teams.

What excites me most about Land IQ is its integrated approach to solving agricultural and environmental challenges. I am eager to contribute my skills in remote sensing, geospatial modeling, and data-driven analytics to support Land IQ’s impactful projects.

I welcome the opportunity to further discuss how my expertise can benefit your team. Thank you for your time and consideration—I look forward to your response.

Sincerely,

Lan H. Nguyen