

EARTHSHOT

LABS

Planetary-scale Regeneration

Applied Scientist, terrestrial ecosystem modeling (remote)

Design and launch a state of the art ecosystem simulator that models ecological and financial outcomes under future land management scenarios. Join Earthshot on a soulful ecological journey to restore our relationship with the sacred earth.

Earthshot Labs' purpose is to use AI to catalyze planetary-scale land regeneration.

We conduct core ecological research and build technology products that inspire landowners to restore their land, and easily onboard them to carbon marketplaces at no cost. Earthshot also develops land restoration and carbon projects around the world.

Earthshot believes that people are most effective and happy when they bring their whole selves into their work, so they can unleash their full genius. We take shared breaths together, we discuss subjects that are deeply meaningful and at times vulnerable. We actively maintain a coherent field of deeply held love for nature and restoring humankind's place within it. Despite our best intentions we are keenly aware of the potential problems inherent in creating a tech platform to engineer large scale land use, and so we are engaging with indigenous leaders, ecological experts, regenerative farmers, and other groups with deep knowledge of the land in order to ensure we have the highest integrity and wisdom infusing our efforts.

Earthshot is building two products that enable its vision: LandOS and Biome. LandOS is a platform for enabling landowners to envision and manifest the regeneration of land they have stewardship over. Our intention is to build a product that inspires our customers to be bold, to delight and engage them while they envision the future possibilities of the land in ways never possible before. Biome is our Unity app that collects nature observations in the most accurate, fun and engaging way using the smartphone's neural engine, camera, and augmented reality capabilities. The data collected is used to power both fundamental ecological research as well as to underpin our LandOS system for envisioning and manifesting land restoration.

The Role

We're looking for an ecologist who has experience with modeling plant ecosystems, focusing on the carbon cycle. Knowledge of global plant species distribution models is a plus. In this role you'll have the opportunity to work with a world-class team of scientists and engineers, to build and deploy the ecological prediction module that will form the backend to LandOS. Your work will directly impact Earthshot's methodology for determining how carbon is expected to

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accumulate in restored ecosystems over time, under different management scenarios. Through reading the primary research literature and working with state-of-the-art ecosystem models, you will aid in designing a modeling system that accurately portrays ecosystem services, and the financial outcomes for landowners that will catalyze ecological restoration on a massive scale.

Requirements:

- Advanced degree in terrestrial ecology (e.g. biology, ecology, geography)
- Experience with land surface modeling (e.g. Community Land Model)
- Experience with remotely sensed global ecological data sets (e.g. above ground biomass, soil carbon, leaf area index)
- Experience with applying data science and machine learning to solving scientific problems
- Proficiency in Python or another scripting language commonly used for machine learning
- Strong written and oral communication skills, as evidenced through research grants, publications, or conference presentations
- Ability to define and execute projects on a timeline
- A deep love for nature and desire to help build a more integrated future for humanity within it

Nice-to-haves:

- Experience with species distribution modeling
- Experience with tropical ecology or restoration ecology
- Experience building and deploying enterprise-grade machine learning systems, e.g. in private industry
- Experience with GCP, AWS or Azure

Culture: The process is the product.

By now, you'll probably have realized that Earthshot is a different type of organization than most other companies you've encountered. We're inherently mission-driven for profound human and ecological impact. Even more important is the way we work together: the quality of communication, team coherence, creating conditions for the genius and creativity of our team members, recognizing the comprehensive lives that we each lead. Our vision for team culture is informed by [teal](#) management, a shared love of nature, and the cultivation of healthy human relationships. Earthshot is fundamentally motivated by love, and is an organization where heart-centered people can together apply their world-class talent to the biggest challenges of

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our time. We are a natively remote organization, which means that people can choose to work from home whenever they would like, and we have team gatherings every 1-3 months to build team coherence, foster deep relationships with each other, and enjoy nature together. In the future, we imagine permanent retreat places for teams to work for weeks or months at a time together in gorgeous natural settings.

Diversity:

Earthshot is building a company that honors the awe-inspiring complex diversity of the whole earth. We prioritize hiring team members that expand our team's representation of race, color, ancestry, religion, gender identity, national origin, sexual orientation, age, relationship style, and many other dimensions of diversity. We welcome introverts, weirdos, hippies, and anyone else with high emotional intelligence, passionate ecological commitment, and brilliant skills that maybe don't fulfill the usual societal norms. This isn't just about inclusion or equity. We believe that the genius of diverse peoples and backgrounds is essential to create culture and technology that reflect the world we want to live in.

Details and Application:

Well funded startup that is venture backed by Future Ventures. Competitive salary plus equity.

To apply:

1. Optional: take a 1 - 3 minute video about yourself, your genius, what you want to contribute to Earthshot, and what you want to receive in this next phase of your life and career (include this on the application linked below).
2. Fill out the [questionnaire](#) on the jobs page on the [website](#).