



## VACANCY ANNOUNCEMENT Postdoctoral Fellow- Soil & Land Health

### About the organization

World Agroforestry (ICRAF) is a Centre of scientific and development excellence that harnesses the benefits of trees for people and the environment. Leveraging the world's largest repository of agroforestry science and information, we develop knowledge practices, from farmers' fields to the global sphere, to ensure food security and environmental sustainability.

ICRAF is the only institution conducting globally significant agroforestry research in and for all of the developing tropics. Knowledge produced by ICRAF allows governments, development agencies, and farmers to use the power of trees to make farming livelihoods more environmentally, socially and economically sustainable at scales.

We are headquartered in Nairobi, Kenya, and operate six regional programmes in Sub-Saharan Africa, Asia and Latin America.

On 1 January 2019, the Center for International Forestry Research (CIFOR) and World Agroforestry (ICRAF), two of the world's leading organizations focused on forestry and agroforestry, merged in order to provide the evidence and innovative solutions needed to scale up investment in sustainable development and address the global challenges of our time.

To learn more about our organizations, please visit our website: <https://www.cifor.org> and <http://worldagroforestry.org/>.

### Overview

The Postdoctoral Fellow (Postdoc) - Soil & Land Health, will be expected to conduct high quality research around ecosystem restoration, including cross-site comparisons of biophysical datasets that can contribute to the evidence generation within the CIFOR-ICRAF Restoration Transformative Partnership Platform (TPP).

### Summary of responsibilities

- Apply advanced statistical methods and work with large, complex data sets, collected using the Land Degradation Surveillance Framework and other key methodologies;
- Apply data analytics to explore how soil properties interact with ecological processes in ecosystem restoration;
- Contribute to the scientific methods on carbon accounting, combining field-based methods, soil spectroscopy and remote sensing;
- Contribute to the generation and leveraging of evidence to inform the CIFOR-ICRAF Restoration TPP and contribute to the UN Decade on Ecosystem Restoration;
- Solve difficult, non-routine challenges, and clearly communicate technical results and methods;

- Conduct data mining and analysis of field and possibly remote sensing data to assess ecosystem health and restoration potential;
- Work with team of ecologists, soil scientists, foresters, hydrologists and remote sensing experts to assess interactions with soil and land health;
- Contribute to resource mobilization for the Restoration TPP, including supporting funding proposals, scoping funding opportunities and liaising with donors (in liaison, where appropriate, with resource mobilization personnel in CIFOR-ICRAF and other member organizations) to ensure an appropriate pipeline of funding to grow and sustain the Restoration TPP;
- Contribute to the growing global ecosystem health database.

### **Other Responsibilities**

- Develop communications materials based on the lessons emerging from the analysis;
- Represent the Restoration TPP, the Soil and Land Health Theme, and CIFOR-ICRAF at meetings and events;
- Contribute to fundraising;
- Maintain global datasets;
- Contribute to the Soil and Land Health team meetings;
- Contribute to the wider CIFOR-ICRAF community;
- Any other tasks related to the Soil and Land Health Theme.

### **Requirements**

#### *Education, knowledge, and experience:*

- PhD in Ecology, Restoration Ecology, Soil Science, Agriculture, Environment, Natural Resources or related field;
- Experience in the analysis and modelling of soil and ecological data;
- Advanced statistical methods, including machine learning, mixed models and Bayesian statistics
- Experience with R software;
- Understanding of ecosystem health and big data analytics;
- Understanding and contributing to the global Ecosystem Restoration agenda;
- At least 5 years' experience conducting high-quality in research with peer-reviewed publications.

#### *Personal attributes and competencies:*

- Excellent data analytical skills;
- Excellent written and oral communication skills in English including scientific writing skills;
- Ability to work in a diverse team and collaborate with team members;
- Analytical and synthesis skills and ability to identify emerging lessons;
- Experience with experimental design principles;
- Ability to draw conclusions from data and recommend actions;
- Ability to use initiative and solve problems;
- Excellent presentation skills.

### **Terms and conditions**

- This is a Globally Recruited Position. CIFOR-ICRAF offers competitive remuneration to their Globally Recruited Staff (GRS), commensurate with skills and experience.
- The appointment will be for a period of 2 years inclusive of a 6-month probationary period, with the possibility of extension contingent upon performance, continued relevance of the position and available resources.
- We offer flexibility of duty station for this position.

## Application process

Go to <http://worldagroforestry.org/working-for-icraf/vacancies>

Applications will be considered until **8 April 2021**. CV and Cover Letter should be in PDF and Labelled with the applicants First and Second Names. Please note that only short-listed applicants meeting the job requirements will be contacted.