Join CIFOR-ICRAF and make a difference!

Agroecological Systems Analyst (Ref. No.2024010)

CIFOR-ICRAF brings more than 75 years of experience in harnessing the power of trees, forests, and agroforestry landscapes to address the most pressing global challenges of our time – biodiversity loss, climate change, food security, livelihoods, and inequity. It has partnerships in 64 countries, 159 funding partners and 192 active projects, alongside more than 2,200 completed projects across 92 nations. The organisation has an annual budget of USD 100 million, and a combined legacy investment of USD 2 billion in research and technology, policy, and development. On average, CIFOR-ICRAF research is cited nearly 137 times a day and appears in global media more than 3,000 times per year. CIFOR and ICRAF merged in 2019 and are both international organizations and CGIAR Research Centres. Learn more at cifor-icraf.org.

CIFOR-ICRAF is looking for a:

Agroecological Systems Analyst

Overview

The agroecological systems analyst will contribute to the development, implementation and documentation of analytical and modeling frameworks that integrate biophysical, ecological, and socioeconomic domains to evaluate the impacts of agroecological interventions on livelihood systems and ecosystems. Other responsibilities will be to support the management and co-development of interactive web-based dashboards and databases.

Summary of responsibilities

1. **Research Design & Data Collection:**
   - Support the design of research projects in agroecology with an eye to ensuring they will be able to collect high-quality data to address project goals.
   - Design surveys and focus group discussion guides for data collection.
   - Translate questions into digital collection tools such as ODK and Kobo Collect to emphasize question quality, data validation framework and option relevance.
   - Train enumerators and team members on data collection, interviewing and note-taking for easy translation to viewable data.
   - Undertake literature reviews and other desk-based data collection methods.
   - Ensure data are stored in secure and ethical ways.

2. **Data Analysis:**
   - Clean and curate data to enable analysis.
   - Design data analysis frameworks that connect the available data to the expected results and formulate hypotheses.
   - Conduct exploratory data analysis to uncover insights in the data that will advise the next course of analysis action.
   - Analyze data to test hypotheses and create predictive models using R or Python.
   - Create visualizations and graphs of the data, including using spatial tools such as QGIS.
3. **Database/dashboard development:**
   - Contribute to the development of digital dashboards that allow stakeholders to interact with data, including:
     - Farmer dashboards with personalized data collected in projects.
     - Metrics dashboards/databases allowing users to develop monitoring systems using existing metrics.
     - Project dashboards showing implementation progress or other metrics aimed at donors/investors.

4. **Communications & Stakeholder Engagement.**
   - Interact with multiple actors (farmers, development actors, donors, NGO etc.) to ensure user-centred design of dashboard/database interfaces.
   - Develop presentations, briefs, data visualizations or other tools to report on data/results to diverse stakeholders, particularly policy makers developing agroecological strategies.
   - Disseminate research results and original ideas through diverse channels, including giving presentations, attending conferences, or other fora.

5. **Publications & Reporting:**
   - Contribute to peer-reviewed publications, particularly supporting the writing of methods and results sections.
   - Contribute to project reporting and presentation of results to stakeholders.
   - Write briefs/info notes on results of data analyses, such as ROI of agroecology, or performance of novel holistic metrics for diverse audiences.

6. **Management & Oversight:**
   - Ensure high-quality data collection in the field through training and supervising teams of enumerators and field technicians.
   - Manage field work budgets as appropriate the ensure collection of high-quality data and smooth stakeholder engagement.
   - Supervise junior data analysts and research assistants.

7. **Resource Mobilization:**
   - Contribute to the development of proposals related to agroecology, sustainable food systems monitoring, climate adaptation, or other strategic areas through idea development, writing and contributing data/analyses.

8. **Other Duties as commensurate with the position and assigned by the supervisor.**

**Requirements**
- Master’s Degree in Data science, Statistics, or related field such as Agriculture, Environmental Science, Economics, with demonstrated analytical skills.
- Minimum of 3 years relevant professional level work experience.
- Experience in designing experiments to answer targeted questions and conducting exploratory data analysis.
- Strong technical skills in statistical analysis, data modeling, programming languages (R or Python), and machine learning to solve problems/predict patterns in scientific projects, and visualizing results.

**Personal attributes and competencies:**
- Proven experience in database/dashboard development and management, preferably in a web-based environment.
- Understanding of sustainable agriculture/food systems or related areas is a significant plus.
- Strong analytical and synthesizing skills; ability to think and write clearly and concisely on scientific documents and research proposals.
• Excellent communications skills and ability to convey complex technical concepts to a non-technical audience.
• Flexibility on work hours and activities, including travel and extended field work activities.
• Experience working in interdisciplinary and collaborative teams, ability and willingness to contribute to project success by providing constructive and proactive feedback whenever possible.
• Excellent command of English, both written and spoken.

Terms and conditions
• This is a Locally Recruited position. CIFOR-ICRAF offers competitive remuneration in local currency commensurate with skills and experience.
• The duty station will be in Nairobi, Kenya CIFOR-ICRAF Offices.

Application process
Go to [http://worldagroforestry.org/working-for-icraf/vacancies](http://worldagroforestry.org/working-for-icraf/vacancies)
• A cover letter illustrating your suitability for the position against the listed requirements and salary expectations.
• A detailed and updated curriculum vitae,
• The names and addresses of three referees, including telephone and email addresses.
• The application deadline is 26 March 2024.
• We will acknowledge all applications but will only contact short-listed candidates.

CIFOR-ICRAF is an equal opportunity employer. Staff diversity contributes to excellence.