



**Join CIFOR-ICRAF and make a difference!**

## **Data Science Information Systems & Analytics Developer (Ref. No.202515)**

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](http://cifor-icraf.org).

CIFOR-ICRAF is looking for a:

### **Data Science Information Systems & Analytics Developer**

#### **Overview**

As part of CIFOR-ICRAF, SPACIAL's mandate is to provide expertise and guidance in the realm of spatial/nonspatial information collection, management, data pipeline development, information dissemination. With the demand for these systems on the rise within CIFOR-ICRAF and by partners, we are looking to expand our developer's team especially with someone similar software designing and development skills using Free and Open-Source tools.

The new position will be involved in diverse projects, collaborating with different units, projects (in many regions).

#### **Summary of responsibilities**

##### **1. Stakeholder Engagement and Requirement Analysis**

- Conduct in-depth analysis of stakeholder requirements for new and existing systems.
- Provide comprehensive feedback to stakeholders regarding their requirements.
- Facilitate stakeholder collaboration in designing mockups and developing use-cases.

##### **2. Information System Design**

- Develop Information System Architecture based on stakeholder requirements and current technologies, including deployment strategies and sustainability plans.
- Assist the unit in selecting suitable technologies (related to backend, frontend).
- Create and validate UI/UX designs through stakeholder engagement.
- Work with other CIFOR-ICRAF themes and units to support platform development where relevant.

##### **3. Information System Development**

- Implement software solutions using the selected technology stack
- Perform thorough unit testing and quality assurance
- Develop developer/user guides.

#### **4. Data Science and Analytics**

- Assist in building data pipelines using Open-Source technologies (e.g., Apache Airflow)
- Perform data cleaning and curation for dashboard development.
- Apply Agile software development principles in the design and development of data-driven dashboards
- Explore and implement emerging technologies for micro dashboards (e.g., Apache Superset, Power BI, Observable Framework)
- Assist with data analysis and identification of data requirements for data-driven dashboards.

#### **5. Continuous Integration and Continuous Deployment (CI/CD)**

- Establish, maintain, test and deploy production CI/CD pipelines
- Utilize Docker Hub and GitHub for efficient deployment and version control.

#### **6. Collaborative Requirements Gathering and supervision**

- Actively participate in requirement gathering workshops to analyze stakeholder needs
- Supervise junior developers on database design and management, and in platform development.

#### **7. Contribute to scientific papers where relevant.**

#### **8. Contribute to proposal development and writing where relevant.**

#### **Requirements**

- BSc degree in relevant field.
- Advance programming skills especially in Python Django framework.
- Excellent understanding of database systems, including advanced database development.
- Proven solution deployment experience.
- Good knowledge of Linux.
- Knowledge of Data Science and Machine Learning.
- Knowledge of Data and analytical pipelines.
- Knowledge of EDA platforms.
- 2 to 4 years of experience.

#### **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>

- 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 **24 February 2025**.
- We will acknowledge all applications but will only contact short-listed candidates.

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