

IEA # 615

Geospatial Research Specialist

Reports to: Head, Geoinformatics Unit

Location: New Delhi, India

Opening date: September 4, 2019

Closing date: September 25, 2019
(or until the position is filled)

Summary

This position will be best performed by an experienced individual familiar with multi-sensor remote sensing data, processing and management, and expert level skills in software programming in geospatial domain for automation in cloud computing environments. The successful candidate will be expected to work diligently and cooperatively with the multidisciplinary project team, and perform responsibilities as assigned by Head of the Geoinformatics.

About ICARDA

The International Center for Agricultural Research in the Dry Areas (ICARDA) is an international autonomous, non-profit, research organization supported by CGIAR, a global research partnership for a food-secure future. ICARDA's mission is to reduce poverty, enhance food, water and nutritional security, as well as environmental health in the face of global challenges including climate change. We do this through innovative science, strategic partnerships, linking research to development and capacity development that take into account gender equality and the role of youth in transforming the dry areas. ICARDA works in partnership with governments, universities, civil society, national agricultural research organization, other CGIAR research Centres, and the private sector.

With its temporary Headquarters in Beirut, Lebanon, ICARDA operates in regional and country offices across Africa, Asia and the Middle East. For more information: www.icarda.org

Main responsibilities

- Develop and implement algorithms for remote sensing image processing, land use and land cover mapping, decision support tools, and data and product synthesis dissemination.
- Conduct baseline studies and site characterization for agricultural interventions.
- Working knowledge on biophysical and climate data, multi-criteria modeling.
- Provide geospatial applications and scaling services to ICARDA's Research, including the CGIAR Research Program (CRP) activities.
- Contribute to geospatial research on DryArc that addresses key issues of resilient agro-ecosystems approach in ensuring food and nutritional security;
- Analyze data and publish scientific findings in high impact ISI journals;
- Contribute to institutional capacity building of national partners through training, supervision and technical backstopping.
- Develop sustainable intensification framework including spatio-temporal maps of agro-ecosystems-crop types, intensity, rice fallows, yield, and land suitability to support decision-making processes at different levels.
- Contribute to the Strategic Research Portfolio to the Dry-Arc initiative' Multi-temporal and multi-spatial remote sensing image processing and analysis towards develop real-time agro-ecological decision layers in cloud- based platforms.

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- Play key role in development of the rice-fallow decision support system for India.

Education, qualifications and experience

Essential qualifications and competencies

- MSc in Geography, environmental sciences (preferably geospatial modeling) or a related subject with at least 7 years of experience;
- Proven experience in remote sensing and GIS tools; programming, algorithm development, Cloud computing;
- Working knowledge of the crop simulation models;
- Proven experience in field-based research, land use monitoring and assessment and climate change;
- Demonstrated experience in Spatial decision support systems in cloud-based platform
- Knowledge of, and experience in, participatory and community-based approaches
- Good knowledge of experimental design and statistical analysis;
- Excellent written and oral communication skills in English;
- Excellent interpersonal skills and proven experience working in a multi-partner, multi-disciplinary and multicultural teams;
- Strong flexibility/adaptability and positive attitude towards work
- Excellent time management abilities.

Desirable qualifications and competencies

- PhD in Geography, environmental sciences (preferably geospatial modeling) or a related subject with 5 years of experience;
- Publication record in ISI peer-reviewed journals;

Terms of appointment

This is a nationally recruited consultancy role with planned initial duration of 1 year, with possibility for further extension for up to 3 years.

How to apply

Please apply online at <https://apps.icarda.org/iea/> by September 25, 2019. Applications will be considered until the position is filled.

ICARDA is committed to increasing women representation in its workforce and strongly encourages applications from women.

Applications will be acknowledged, but only shortlisted candidates will be contacted.