

POSITION ANNOUNCEMENT AT SYSTEMIQ AND LESTARI CAPITAL

POSITION: HEAD OF SPATIAL ANALYSIS

Duty Station: Jakarta

Period of Work: Fulltime

SYSTEMIQ and Lestari Capital are working together on the shared vision that innovative approaches are crucial to increasing the sustainability of our environmental, social, and economic systems. The Head of Spatial Analysis will be responsible for identifying how spatial data can be used as a tool to better understand our world and the impact our decisions make. In this position, the Head of Spatial Analysis will work jointly with both organizations, further increasing the efficiency of both organizations.

SYSTEMIQ & SYSTEMIQ'S REGENERATIVE LAND USE ACCELERATOR

Established in 2016, SYSTEMIQ is an organisation driving system change in clean energy, circular material solutions and sustainable land use. By addressing failures in these areas, SYSTEMIQ aims to unlock economic opportunities that benefit business, society and the environment.

We connect the right people, ideas, technologies, and capital to transform economic systems. We do this through five activities:

1. Convene and support coalitions of leaders to shape policies and business strategies that will rapidly transform economic activity
2. Work with companies that want to be pioneers and drivers of change towards more sustainable systems
3. Co-create and incubate the market solutions most likely to build regenerative economic systems
4. Invest our own venture capital and expertise in opportunities with the biggest potential to drive rapid system change
5. Direct larger pools of capital into regenerative economic systems, so they scale and multiply.

SYSTEMIQ has an Impact Accelerator supporting businesses which have the potential to disrupt the current system of land use. We call this the Regenerative Land Use Accelerator.

The Accelerator's portfolio contains scalable business models that overcome the trade-off between economic profit, ecosystem regeneration, and social inclusion.

We accelerate these business models by giving capital and other services to the models we believe can be most disruptive at scale. These services range from advising on strategy, to supporting the development of robust business and financial models, to connecting the companies to markets and investors.

LESTARI CAPITAL

Established in 2017, Lestari Capital PTE LTD is a Singapore-based company founded to drive market-linked finance into tropical forest conservation and restoration initiatives. The Lestari Capital team has spent the last 2 years working in consultation with the global agro-commodity, financial and non-governmental sectors to develop a new finance vehicle, known as the Sustainable Commodities Conservation Mechanism (SCCM), which links a portfolio of high-quality projects to blended finance sources. Lestari Capital specializes in identifying, vetting and financing internationally certified projects that deliver verified conservation and restoration impact, starting in Southeast Asia.

As the global commodity, transportation and energy sectors begin to respond to evolving market requirements, Lestari Capital works in parallel with the same forces driving supply-chain transformation to generate financing for conservation. Lestari Capital supports multi-stakeholder sustainability standards by providing credible, transparent and efficient ways for the private sector to meet and surpass sustainability commitments, certifications and import requirements. We are using this approach in Southeast Asia, demonstrating how the cost of environmental impact can be built into the cost of commodity production.

Lestari Capital's impact model addresses a critical need for long-term operating capital for Projects run by local communities, conservation non-profits and environmental services companies. Lestari Capital aims to strengthen Southeast Asia's emerging ecosystem services marketplace, by connecting demand for on-the-ground conservation efforts among commodity producers/buyers with Projects that are protecting or restoring forests where these companies operate, to protect at-risk areas.

At the center of Lestari's approach is the Sustainable Commodities Conservation Mechanism (SCCM), which finances Projects for a minimum of 25 years. The SCCM provides independent fiduciary oversight that ties payments to results on the ground, ensuring benefits to local communities, global climate and biodiversity. Funds are managed through a financial vehicle domiciled in Singapore that delivers payments through a custodian bank.

Lestari Capital's diverse Project portfolio includes internationally certified initiatives on the forefront of tropical conservation, ecosystem restoration and community forestry. Our company specializes in selecting, vetting and financing certified conservation, restoration and community-forest Projects that protect forests, peatlands and biodiversity. This includes working with members of the Roundtable on Sustainable Palm Oil (RSPO) and those with "Zero Deforestation" pledges. Efforts are also underway to expand to additional commodity sectors, as our company supports emerging sustainability trends through a credible and transparent conservation finance platform.

Lestari Capital is supported by a diverse group of public-private partnerships and brings actors from the commodities and finance sectors together with conservation initiatives and funders. Our portfolio prioritizes support for Project models that can eventually support jurisdictional and national climate targets.

POSITION DETAILS

This position will work jointly with the teams in SYSTEMIQ and Lestari Capital and serve as the Head of Spatial Analysis, thus designing and directing all spatial analyses required at both organizations. These two organizations are already working in tandem to develop innovative approaches to fund sustainable forest management. The position will be based in Jakarta, where the two organizations share one office space.

The Head of Spatial Analysis will provide technical leadership in developing, managing, and innovating its GIS systems, providing technical support to daily operations and analysis, as well as independently, and with Lestari Capital's and SYSTEMIQ's teams, leading on improving company systems, client support, and business development offers. This position will also manage and direct the small team of GIS spatial analysts at both organizations.

The role will report jointly to Lestari Capital's Chief Conservation Officer and the Deputy Head of SYSTEMIQ's Regenerative Land Use Accelerator. However, the role will also work closely with the other areas of each business and may also work closely with strategic partner organizations in the future.

Development, Maintenance and Continual Improvement of Lestari Capital's and SYSTEMIQ's Database and GIS Systems

- Building on previous work, ensure the establishment, maintenance and continual improvement of Lestari Capital's and SYSTEMIQ's GIS Systems and processes, including (but not limited to) a main database, a web-based platform, GIS software usage for advanced GIS analysis, sharing and storage systems, and any other required systems. This will include the need to transition toward a comprehensive shared system.
- Develop procedures and processes for the proper usage of the above systems, including those for data use, data sharing, data collection, data verification, and data manipulation/analysis.
- Support the continual improvement of the data sets available, through application of new and improved analysis techniques, verification (whether desktop or field) of data, and active research and development. This should include developing a knowledge base and good communication of new technology applications of GIS within the sustainability sector.
- Provision of on-going training, including the development of training materials, for the Lestari Capital and SYSTEMIQ teams and ensure proper data usage, and sharing follows company standards. Ensure quality of GIS product being delivered by others in the Lestari Capital and SYSTEMIQ teams.

Monitoring and Reporting

- Development, either internally or with external partners, of a "project delivery monitoring system", together with the Chief Conservation Officer, to ensure that projects are in compliance with agreed KPIs (when related to those observable via GIS). Such a system should ensure use of robust methodology.
- Development of guidance materials for use by Lestari Capital projects on the use of the developed monitoring system.

- Development of a public-facing platform(s) to communicate achievement of KPIs by projects supported by Lestari Capital and SYSTEMIQ. This should include basic data analysis and statistics.

Research and Development

- Together with the SYTEMIQ and Lestari Capital's Research and Development team, support the development of new methodologies, new business offers, new approaches for supporting no deforestation, landscape-level collective responsibility, and other applications of the Lestari Capital model.

Management and Technical support provision

- Lead the small team of GIS staff in both organizations. This will include working with the Chief Conservation Officer and Deputy Head of SYSTEMIQ's Regenerative Land Use Accelerator to delegate required tasks across the team and monitoring progress against needed deliverables.
- Serve as mentor and provide ongoing training to other GIS team members as needed
- Provide day to day GIS support and technical guidance to the various Lestari Capital and SYSTEMIQ teams (workflow to be managed by line manager with the Head of Spatial Analysis) on an ad-hoc basis. This may include mapping support, GIS analysis, optimization or automation of processes, or other aspects as required.
- Providing technical guidance to Lestari Capital and SYSTEMIQ project awardees/grantees and/or other collaborators as required. This includes limited on and offsite training, developing reporting guidance standard operating procedures, and reviewing and providing feedback on their reporting.

QUALIFICATIONS

- Master's Degree in forestry, ecology, environmental studies, geography, or relevant field.
- At least ten (10) years of relevant professional experience in developing and conducting land use based spatial analysis and spatial data management, strong preference for experience in forestry, environmental, conservation, and/or agricultural sectors.
- At least three (3) years of experience managing other GIS staff members; Experience serving as team lead preferred.
- Advanced knowledge in building and maintaining GIS based database systems
- Advanced knowledge in QGIS, ArcGIS (desktop and server), Spatial Analysis and Image Processing Software (e.g. QGIS Semi-automatic Classification Plugin (SCP), The Sentinel Toolbox, Geographic Resources Analysis Support System (GRASS), ENVI, etc.) as well as data management
- Experience in managing GIS technical assistants and consultants
- Strong capacity and ability to lead all GIS required in various conservation assessment tools: High Conservation Value (HCV), High Carbon Stock approach (HCS), etc.

- Strong capacity, experienced, and ability to demonstrate the landscape conservation approach. Including ability (within in a team) to develop / proposed / recommend appropriate method to support planned, monitoring the on-going conservation projects.
- Strong computer skills in the main software programs (Excel, Word, Power Point Access, etc.)
- Strong capacity developing the spatial database, using various platform i.e. ArcIMS, Geonode, etc.
- Strong computer skill in information technology and programming (DBMS, python, php, javascript)
- Familiarity to work with variety of remote imageries, e.g. Sentinel-1, Sentinel-2, Landsat, SPOT, IKONOS, GeoEye, etc.
- Knowledge and experience with the spatial datasets developed, spatial analysis and cataloged for Indonesia at local, regional, national, and international desired.
- Familiarity with Indonesian government agencies associated with spatial and non-spatial information services desired.
- Knowledge of the licensing and permitting process for land use in Indonesia desired.
- Familiarity with climate change mitigation and greenhouse gas emission accounting desired.
- Familiarity with development and sustainability policies and pledges by government and private sector desired.
- Familiarity with technical aspect for palm oil and forestry especially applications of GIS for private sector desired.
- Experience with databases using SQL including construction and macro development is a plus.
- Experience in leading a team is a plus.
- Excellent communication both oral and written in English and Bahasa Indonesia required.

PERSONAL ATTRIBUTES AND COMPETENCIES

- Good personal organizational and priority setting skills, with the ability to work effectively under time pressure and manage multiple priorities.
- Capable of working independently as well as being an effective team player, with initiative and creativity.
- Good interpersonal and communication skills, with the ability to effectively interact with people in a multi-disciplinary and multi-cultural environment.
- Values the sharing of information and continuous improvement in a cooperative atmosphere of constructive evaluation and learning.
- Excellent facilitation and teambuilding capacity.

WORK CONDITION

The candidate will have the flexibility to be able to commit to travel to research sites as and when necessary.

APPLICATION INSTRUCTIONS

The salary will be commensurate with qualifications and experience.

Applicants should apply by sending a cover letter and CV to: Dr. Sarah M Walker, Chief Conservation Officer, jobs@lestaricapital.com

The job description can also be found here: <http://lestaricapital.com/jobs/>

Important: Please include your name and “SpatialAnalysis” as the subject line of the email. Please ensure the titles of all attachments use the format: YourName_SpatialAnalysis_CV.pdf, YourName_SpatialAnalysis_CoverLetter.pdf). In cover letter please include this summary table:

Position Title	
Surname	
First Name	
Degree type (BA, MS)	
Degree field	
Graduation Date	
Years of work experience	
Technical area	
Software expertise	
Language fluency	
Nationality/Residency	
Availability	