Land Portal Foundation

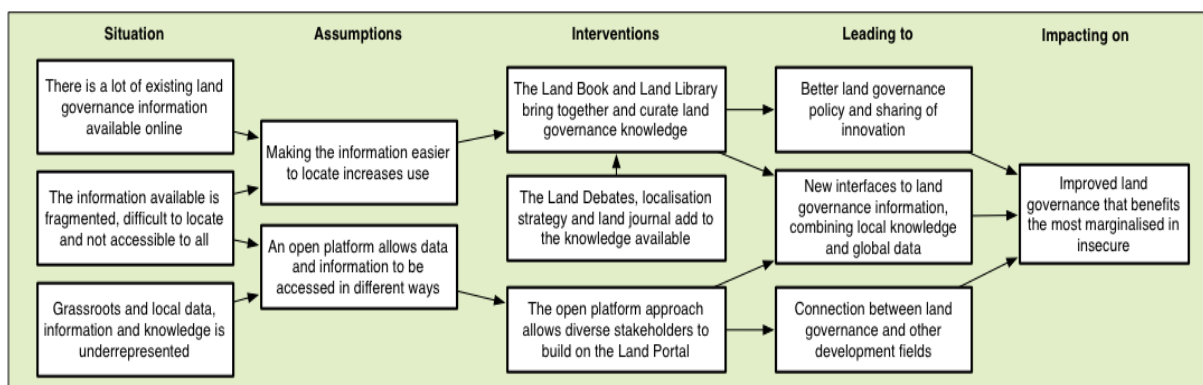# Web & Linked Data Officer

Organizational profile

The Land Portal foundation is a non-profit organization headquartered in Groningen, the Netherlands.

Launched in March 2011 as a global hub for access land information the Land Portal allows for the collection, sourcing, and searching of otherwise fragmented and inaccessible data and information on land governance and land use from diverse sources, produced by governments, academia, international organizations, indigenous peoples and NGOs. The Land Portal brings together content from over 70 partner organisations.

In addition to documenting land rights, the Portal also encourages social information exchange, debate and networking. By combining public data, published information, and first-hand knowledge, the portal has built strong foundations as the online destination for land information.

The Land Portal Foundation has set out an ambitious new strategy for 2014-2017 to become an open development platform, working to improve land governance to the benefit of those with the most insecure land rights and the greatest vulnerability to landlessness.

Land Portal Theory of Change

General responsibilities

The Land Portal **technology/ Open** Data Officer will be a multi-skilled professional part of the Land Portal coordination Unit. He (she) will be tasked to (i) maintain and improve the Landportal infrastructures and services which includes Drupal, CKAN and Virtuoso; (ii) support the maintenance, improvement and upgrading of the main landportal.info website; iii) contribute to maintaining up-to-date documentation on technical infrastructure and processes; iv) Support the provision of collaborative tools for the Land Portal coordination team; v) Occasionally act as a focal point with external technical service providers; and vi) Interact with data sources providers.

Specific responsibilities

Technology Officer

- Support the technical implementation of the Land Portal vision
  - Improve data collaboration through the means of Linked Open Data
  - Assist the Landportal team on technical matters,
  - Provide the technological support to LP programs (hubs, data sources providers …)
  - Co-operate with and participate in the continuous evaluative processes which the Land Portal is establishing to reflect on the effectiveness of its work in real time.

Qualifications and skills

The successful candidate will have:

- Have a University Degree in computer science or a similar discipline;
- Have strong knowledge of the core principle of Semantic Web; Linked Open Data and data visualization;
- Have advanced comprehension of the Web Technologies, architecture, URI, namespaces, etc.) be proficient in managing multiple environments (cloud a plus);
- Have proven experience in developing Web sites, services and apps, ideally experience with Drupal7 development (modules and theme);
- Experience in programming: PHP and JS (strong), Python, plus at least one or two of the following technologies: shell scripting, SCSS, Backbone, D3, RDF, XML, Xpath, XSL, SPARQL;
- Be familiar with the following environments:Drupal7, Apache, MySQL. Some experience with CKAN, Virtuoso or Solr would be a plus.
- Be knowledgeable in databases and linux systems administration. Some experience in: Debian (or derivates), monitoring/backup/deployment systems and cloud environment would be a plus.

- Have capacity building skills / team support;
- Have worked with external service providers;
- Be a fluent English speaker; Spanish and French speaking would be an advantage too;
- Be a team player, able to work independently within a defined framework;
- Proactively approach the daily challenges which arise;
- Have background in development issues and worked in an international environment.

More in particular

Essential	Desirable	Nice to have
LOD, RDF, XML	Various serializations / conversion (XML, RDFa, n3 / turtle etc.) Import / export from LOD endpoints	Semantic Web vocabularies and ontologies Capability to improve data schema, namespaces etc...
SPARQL, SQL	Virtuoso, MySQL, PostgreSQL	JSON/XML-RPC and alike
Web Development		
CMS persistence, sustainability Web services	Git and GitHub	RDF and serializations (rdf/xml, n3, turtle, RDFa)
PHP, Python	CSS, JS	SCSS *(Pylons and SQLAlchemy)* Jquery, Backbone/MarionetteJS, D3 or other.
Drupal7	Drupal themes and templates	HTML5

Reporting

The Land Portal **technology/ Open** Data Officer will be working in close liaison with the Land Portal team and under the direct supervision of the Land Portal Technology Officer and the Team Coordinator.