

# Europeana v1.0 – Invitation for Expression of Interest

This is an open letter to invite submissions of an expression of interest to carry out work as described below relating to the accompanying document ([Europeana v1.0 work description](#))

Europeana under Europeana v1.0 is moving into an operational service over the next 12 months. This requires the creation, deployment and management of a number of services from Hosting, System Architecture to Data Ingestion and sharing of resources with other Europeana related projects such as Europeana Local and Europeana Connect.

The following are required:

- Functional Design of System Architecture
- Development , deployment and maintenance of a development environment
- Development and testing of ingestion procedures and data conversion
- Implementation of a scalable object model
- Development of advanced search API based on the surrogate model.
- Hosting and management of an open source development and sandboxing environment

The work is conceived in 3 lots and submissions are invited for each lot.

## LOT 1

This lot covers design of the Functional System Architecture, Creation and management of the Development environment and the creation, development and management of tools, services and systems for the ingestion of data into Europeana and via the projects. Details of the work are as follows:

### Design

Design and updating of the Europeana Functional System Architecture, based on deliverables D2.2 and D2.5 of EDLnet and continued work under Europeana v1.0

### Development environment

Set up and administration of a web-based open source project-management and collaboration software for use by developers to store and manage their code and documents.

Set up of test environments to be used by projects aggregating data for Europeana.  
Create and manage data structures such as relational databases and RDF triple stores.  
Implement Java-based web services.

### Ingestion

Set up of a Subversion repository to store harvested collections, normalized collections and all files needed for the mapping and normalization.

Creation and administration of tools for the content and functionality management of very large digital libraries: (meta)data harvesting, analysis, processing, formatting, conversion and storage.  
Manipulation of XML data. Creation of RDF triples.

Develop and maintain the dashboard administration GUI using the Google Web Toolkit (GWT) technology

*Expressions of interest are invited for this lot in the region of 7.4 months work between July 2009 and June 2011*

## LOT 2

This Lot covers the database creation and maintenance together with the development of an object model that can be used in a scalable version of advanced search. The details are as follows:

### **Object modelling**

Define a data model and database design for Europeana object, based on the EDLnet D2.2 Initial Semantic and Technical Interoperability Requirements deliverable (section 6: Object Model and Interaction of EDL with providers/aggregators).to provide effective and efficient Advanced Search Functionality to Europeana.

### **Advanced Search & Surrogate prototype**

Based on the user requirements and analysis of available technologies and market products develop an Advance Search & Surrogate API Prototype(s).

It is envisaged that the work described above would amount to the following person months of effort for each respective lot over the project duration of 30 months beginning 1st February 2009.

### **Database Functionality**

Develop the database functionality of the portal and dashboard using Hibernate and Spring MVC. .

*Expressions of interest are invited for this lot in the region of 12.1 months work between July 2009 and June 2011*

## LOT 3

### **Hosting and Management of the Development and Sandbox environments**

Europeana v1.0 requires a Hosting of development environment and partner sandbox to be set up and deployed for content ingestion and application validation. The sandbox and services provided will also be used by other projects such as Europeana Local, Europeana Connect and other future projects. These projects will be recharged by Europeana.

**Objectives:** To provide services to Europeana for configuring and maintaining the Europeana Development Environment (EuropeanaLabs) and partner content and application sandboxes

**Responsibilities:**

Manage availability of EuropeanaLabs according to an agreed Service Level Agreement

**Work Allocation:** Work for system administration activities will be allocated by the Technical Director of the Europeana Office and will amount to an average of 10 days per month for July 1 2009 till June 30th 2010 and 20 days per month for July 1st 2010 till July 31st 2011.

According to Section 7.1 of the Description of Work the Service Provider will also have the following responsibilities for each Task within its remit to:

- Purchase and maintain the Europeana servers
- Provide regularly reports,
- Control the quality of the Service according to SLA;
- Identify risks, track them, and propose corrective actions in the event of problems;

The overall effort contributed to the project by the Service Provider thus will amount to a total of 380 days.,.

The Service Provider will purchase or make available hardware (servers) initially 2 SUN Fire X4140, this can be extended on request by Europeana, the EDL Foundation. The EDL Foundation will pay for the costs of these servers. If purchased the servers remain the property of the EDL Foundation after expiry of the contract

Quotes should exclude VAT: Europeana, the EDL Foundation is tax exempt

*Expressions of interest are invited for this lot in the region of 12 person months' work between July 2009 and June 2011 with hardware, software costs at a maximum of €26,800*

	<b>Lot 1</b>	<b>Lot 2</b>	<b>Lot 3</b>
<i>Person Months</i>	7.4	12.1	12
<i>Hardware/software</i>			€26,800

Please indicate your interest in carrying out this work by letter no later than **June 20, 2009**. The letter should describe your qualifications, experience and note your monthly rate. The letter can be sent to the attention of Jill Cousins at jobs.edlf@kb.nl, or by mail to the following address. The subject line should contain the reference: Ref:Ev1/Tech/Lot followed by the number of the Lot you are interested in.

Address: Europeana Office, Koninklijke Bibliotheek, Prins Willem-Alexanderhof 5, PO Box 90407, 2509LK The Hague, The Netherlands

**Closing date is June 20, 2009**

### **Assessment Criteria**

The criteria on which the expressions of interest will be judged are:

#### Lots 1 and 2

Knowledge of the issues in all areas of interoperability  
Demonstrable technical understanding of the issues to be solved  
Best value for money – price to work undertaken  
Track Record in the field (s), past work in these areas  
Ability to communicate technical issues to a lay audience

#### Lot 3

Previous experience in managed hosting  
Best value for money  
Ability to operate a very open and flexible system with good security

The Thematic Network Coordinator, EDL Foundation, is responsible for the decisions. Decisions will be made and communicated by **June 30, 2009**.