

# Publishing Cooperative at the Massachusetts Historical Society

Our project is a complete web-based publishing platform for historical documents: things like personal letters and diaries of important figures. The system will allow editors to upload transcriptions and manage the frontend that uses see: tools for creating browsing lists, indexing search tools, and it will interface with a CMS for things like the home page, blogs etc. The code currently consists of a set of modular PHP tools: one that reads and parses XML, another that reads and stores JSON structures used for browsing the data, another that builds views and displays of document summaries. You can see the older version of the tool in action here: [www.masshist.org/publications/adams-papers](http://www.masshist.org/publications/adams-papers)

We are looking to contract with a PHP developer for the following tasks:

## TASK 1) Names and Subjects Database

Write PHP classes for a database for tracking historical persons with full CRUD functionality (models and AJAX controllers, no views or frontend). The main object( and thus table) will be the "person". The database will also model "team"s, each of which can create multiple "project"s. Each "team" can have any number of "project"s assigned to it, which in turn can have any number of "person"s assigned to it. The database will also store historical topics as "subject"s, which will have a many-to-one relationship with "project"s, that is: a "team"s "project" can have many "subject"s assigned to it.

All classes should be at or nest in the namespace "\Publications\Vocabulary".

Database abstraction should use PDO or redbeanphp (redbeanphp.com).

Methods/classes that create, update, or delete should accept an argument that when true, confirms the methods should proceed.

Provide fully documented API.

Developer will create simple testing scripts in PHP, in the absence of a front end, that instantiate the classes and demonstrate the complete functionality with simple HTML output.

--to be completed June 2020

## TASK 2) Code Architecture Refactoring and Documentation

A slightly truncated version of the PHP for our main document management and delivery code is available at <http://www.masshist.org/publications/lib.zip>

For this code set:

- refactor larger classes into smaller, more modular classes
- make consistent property and method naming
- make consistent how functionality is exposed via public methods
- work with lead developer to add commenting and implement PHPDoc or comparable automated documentation tool
- Our auto-loader is PSR-0. All other code should follow PSR-1

--to be begun 2021, completed early 2022

TASK 3) Assist with smaller PHP projects as needed. This may include:

- XML to PDF conversion class
- Convert generic HTML/CSS themes to contemporary responsive WordPress themes

**To Apply:**

Please submit a formal letter of interest stating the followin:

- one or two sentences on who your are and your qualifications and experience
- list each of the first two tasks with estimates for the hours you expect to need to complete each task, along with your hourly rate
- For the third task, you may estimate hours for each small point, but is remains more open ended.
- Also mention the work is for "the Primary Source Cooperative at the Massachusetts Historical Society"

Email to [bbeck@masshist.org](mailto:bbeck@masshist.org). Our deadline for this first round is Friday Sept 27.