Data Collaboration Center
Critical Path Institute
1730 E River Road
Tucson, AZ 85718-5893
www.c-path.org

6/25/2021

REQUEST FOR PROPOSAL

OMOP CDM Mapping, Training, and Consulting

Data Collaboration Center's (DCC's) Data Science Team is seeking a proposal **from a U.S. company**, including timelines and budget, to provide expertise and on-demand services related to the Observational Health Data Sciences and Informatics (OHDSI) Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) for our rare disease data sharing platform – Rare Disease Cures Accelerator-Data and Analytics Platform (RDCA-DAP). The tasks included in the scope for this proposal include:

- **Map SDTM formatted data to OMOP CDM**
- **Map source data to OMOP CDM on demand**
- **Train C-Path staff to map data to OMOP CDM**
- **Provide on demand consulting on OMOP standard/UMLS vocabularies**

This Request for Proposal (RFP) describes the intended scope of work and deliverables expected. Also included are guidelines for a budget to be completed by your organization to document the direct, pass-through, and any optional task costs associated with completing the defined scope of work and associated deliverables.

Information contained in your proposal will be evaluated by the members of the DCC and will be considered confidential.

Clarifying questions must be received no later than **July 8;** a conference call may be convened if deemed necessary. Proposals must be received by **July 15**. Both are to be sent to:

Amanda Borens   and   Ramona Walls
Head of Data Science   Data Scientist, Ontologies, Semantics, and Metadata
aborens@c-path.org   rwalls@c-path.org

RDCA-DAP Project Information

RDCA-DAP is a neutral data sharing and analytics platform that will be available to the rare disease community (pharma and biotechnology companies, academics, nonprofit groups, and others) to provide patient-level rare disease data and to help analyze such data. RDCA-DAP is working with the rare disease community to access existing patient-level datasets across rare diseases, and to understand the analytic needs in the community. Multiple discussions and focus groups have been held with different community stakeholders to finalize the database structure, data governance and best practices for the platform. The platform will launch in Sep. 2021 with data in at least 10 disease areas and with basic analytic features. Additional data and analytics will be added over time, and C-Path's experienced quantitative medicine and regulatory science experts will collaborate with groups working on common problems in the precompetitive space to develop tools and quantitative solutions based on available data.

RFP Provisions

The proposal is a firm offer that will be considered valid for 180 calendar days from the submission date. Please provide the contact information of the person responsible for submitting the proposal. C-Path shall not be responsible for any errors or omissions on the part of the Bidder in preparing this proposal. Bidder shall bear all costs associated with preparing this proposal.

You must demonstrate a knowledge base consistent with the objectives and requirements of this RFP and describe your strategy and rationale for the solution and validation or quality assurance testing that will be used to confirm the adequacy of the proposed solution. All the required elements (methods, deliverables, milestones, experience, timelines, and costs) should be clearly explained in 20 pages or less.

Expected Statement of Work

The C-Path team is currently in the development phase for the RDCA-DAP, which includes development of a new data curation pipeline and mapping new and existing datasets to the OMOP CDM. Previously, C-Path has used CDISC's Standard Data Tabulation Model (SDTM), and our staff have limited experience with OMOP CDM. Therefore, we are seeking the following services:

1. Map SDTM formatted data to OMOP CDM.

C-Path has 4 datasets that have already been mapped to STDM that need to be converted to the OMOP CDM. Each dataset contains 25-40 files. Mapping files must be delivered with the OMOP-formatted dataset. C-Path will ingest these data into our database. This work should be completed by August 15, 2021

2. Map source data to OMOP CDM on demand.

Source data includes patient registries, electronic health records (EHR), and clinical trial studies. Other data types may arise. The quality of these datasets is highly variable. We are looking for a contractor who can map these data to OMOP CDM and deliver the mapping files for re-use with future datasets. This work will begin ASAP and be ongoing, depending on the workload of C-Path staff.

Dataset size varies for both source data and SDTM data. Therefore, the Bidder should provide a way to estimate the cost and time required to mapping a dataset depending on the size and quality of the input data. Time and cost estimates will be provided by the chosen contractor within one week of receiving a dataset.

All mapping files must be delivered **open source** (no restrictions on re-use or sharing).

3. Train C-Path staff to map data to OMOP CDM

We are looking for a contractor who will review their mappings with us to help us get better at the process and provide guidance to our team during the initial months of mapping, from July 2021 through October 2021. The Bidder may offer asynchronous training but must also include some hands-on time (in person or remote) with C-Path staff to practice mappings and answer questions.

4. Provide on demand consulting on OMOP standard vocabularies.

We are looking for someone who will be on call via email to answer questions about the usage of specific terms for mapping to standard vocabularies used in the OMOP CDM, particularly for SNOMED, MeSH, and LOINC. This consultation period is July 2021 through October 2021 and is expected to require a few hours a week. The Bidder my offer formal training in these vocabularies. The Bidder must provide guidance on how to extend existing vocabularies in OMOP CDM.

Deliverables

1. 5-10 datasets in OMOP CDM format from SDTM source data. Create ETL specifications (including documentation, source-to-target field mapping tables, source-to-concept vocabulary mapping tables, and SQL scripts).
2. Datasets in OMOP CDM format from raw source data. Create ETL specifications (including documentation, source-to-target field mapping tables, source-to-concept vocabulary mapping tables, and SQL scripts). This deliverable will be ongoing for up to year, on demand. We expect to need conversion for 10-20 datasets in the year following signing of a contract.
3. Training materials and time to train and consult with C-Path staff on mapping data to OMOP CDM.
4. Time to consult with C-Path staff on mapping data to OMOP standard vocabularies, including but not limited to MeSH and LOINC. Training materials are optional. We anticipate needing 1-3 hours per week of consulting (for deliverables 4 and 5) during the first month of the contract, then approximately one hour per week for the second and third months.

Meetings and Overall Project Management
It is anticipated that C-Path and the contractor take part in 1-3 one-hour meetings during the first two weeks of the contract to clarify deliverables and timelines. SDTM mappings (task 1) will take place at the beginning of the contract. Additional mappings will take place from the start of the contract throughout the following year. Upon receipt of datasets to map, the contractor will provide C-Path with a time and cost estimate within one week. The contractor will propose a suitable schedule for consulting, either at regularly scheduled times (e.g., weekly calls) or on demand. The contractor will direct questions to Dr. Walls or her delegate. The contractor may propose additional Project Management activities in their response to the request.

Previous Experience
Please define your organization's capabilities and describe previous experience working the OMOP CDM, SDTM, and mapping data across terminologies or models.

Key Personnel
Describe the roles and responsibilities of key personnel on this proposed project. Please include brief descriptions (300 words or less) of all key personnel who will be involved in the project.

Bidder Organization
Please provide a brief description (300 words or less) of your overall organization (e.g., size, locations, and primary business units).

Costs
Costs are to be broken out and identified per task and deliverable. Third party expenses (e.g., subcontractor, honoraria, out-of-pocket, and travel) must be identified and totaled separately from your direct service costs in relation to all tasks of this project. Management and contracting with third parties, including consultants and advisory panel members, is the responsibility of the contractor. Please separate direct, pass-through, and optional task costs in your proposed budget. Please provide proposed payment terms.