



**Institute for  
Biomedical  
Informatics**



## Clinical Research Informatics Core

### Clinical Research Informatics Accelerator Program

The IBI Clinical Research Informatics Core (CIC) is requesting proposals for informatics assistance with research projects that could benefit from the use of Electronic Health Record (EHR) data. The goal of this program is to accelerate the use of Penn Medicine clinical data resources for scientific discovery leading to improvements in health and healthcare delivery.

#### What we are offering

The CIC facilitates access to clinical data in Epic and the Penn Data Store and then performs computational data analysis using artificial intelligence, machine learning, and visual analytics. Our Data Science Navigator will work closely with you to determine what data you need and then our Data Wrangler will extract it from the appropriate clinical data sources. Our Data Scientist will carry out basic data cleaning and quality control and then perform a computational analysis using cutting-edge methods such as automated machine learning. The CIC team will then present and discuss the results with you in the IBI Idea Factory that provides state-of-the-art immersive visualization technology. We can also work with Penn Medicine Academic Computing Services (PMACS) to set up a secure virtual machine where you can manage and analyze the data yourself.

#### How to Apply

- 1) Browse our current projects page to get a sense of the possibilities: <https://ibicic.med.upenn.edu/projects/>
- 2) Please send a description (500 words or less) about your project to Hannah Chervitz ([chervitz@upenn.edu](mailto:chervitz@upenn.edu)). Be sure to describe the scientific question and specific hypothesis you are interested in. Also provide initial ideas about what kind of data you might need access to (e.g. diagnosis codes, lab tests, notes, etc.). Let us know if you have prior experience working with EHR data. We would also like to know who from your team is available to help with the project and how much time they are able to commit. Feel free to reach out to Selah Lynch ([selah@upenn.edu](mailto:selah@upenn.edu)) for a consult as you put your proposal together.

#### Selection Criteria

A faculty review committee will evaluate proposals based on their scientific merit, clinical impact, and scope. Preference will be given to proposals from investigators that have little experience working with clinical data derived from the Penn Medicine EHR. Preference will also be given to proposals that are focused and within the scope of the CIC staff expertise and available time.

#### Timeline

Grants will be accepted on a rolling basis through the end of 2018. We anticipate 8-10 awards will be made depending on the scope of the projects that are selected.