Data Curator and Project Manager for the NIH LINCS Center at Harvard Medical School

The Laboratory for Systems Pharmacology (LSP) invites applications for the position of Data Curator and Project Manager for the NIH LINCS Center at Harvard Medical School (HMS) (http://lincs.hms.harvard.edu). The incumbent will be responsible for data curation and knowledge management for the growing collection of HMS LINCS reagents and datasets, and serve as a liaison with other LINCS Centers and with the NIH Program team. This position will have a high degree of independence, while working to coordinate information from multiple LINCS projects. There will be opportunities to present at regional and national scientific symposia and workshops, and opportunities to develop collaborative relationship with HMS and outside investigators.

LINCS (lincsproject.org) is an NIH-funded, data-intensive research program focused on uncovering the biological mechanisms behind drug efficacy and resistance using a combination of cutting-edge, high throughput technologies and state-of-the-art computational biology modeling. The LINCS program supports the production and analysis of data from multiple centers, and coordinates its release to the research community and the lay public. LINCS is itself an experiment on the reusability of biological data and the integration of large datasets. This relies on the metadata that accompanies data releases, describing reagents, experimental design and protocols, and that includes appropriate ontologies.

The incumbent will be a PhD level scientist with experience in data curation. HMS LINCS uses high-throughput, data-rich methods to investigate how drugs change cellular activity. Resulting datasets are assembled and analyzed by HMS LINCS investigators. An understanding of cell biology is essential. Experience working to coordinate activities within a team and responding to reporting deadlines is strongly preferred.

Major responsibilities:
- Coordinate HMS LINCS data organization and release
- Compile supporting metadata and formatting information about reagents, experimental protocols, and datasets for entry into LINCS databases.
- Working with HMS LINCS investigators and the larger LINCS community, help develop, document, and implement best practices for annotation of LINCS datasets.
  - Collaborate with LINCS investigators to ensure the use of consistent nomenclature, annotations, and ontologies in data releases.
  - Collaborate with the HMS LINCS Data Analysis team to help develop tools to browse and query LINCS data, and to make curated resources comprehensive, up-to-date, and easy to use.
  - Serve as key HMS LINCS liaison to other LINCS Centers and the NIH Program team.

Basic qualifications:
- **PhD** in Biology, Pharmacology, Chemistry, or a related field

- **3**+ years of biomedical curation experience, or equivalent
- Experience working with databases
- Experience implementing ontologies relevant to biomedical research
- Excellent communication skills

Highly desirable additional qualifications:
- Experience implementing ontologies in biomedical research projects
- Strong conceptual or practical understanding of algorithms and programming in a broadly used environment, e.g. Python, Perl, Java, R, MATLAB.
- Experience implementing automated retrieval and/or processing of information
- Project management experience in a research setting

The Data Curator will work in the HMS LINCS Center as a member of the LSP. The LSP is a multidisciplinary laboratory that engages a combination of mathematical and experimental approaches to understand therapeutic mechanism, advancing drug discovery and personalizing medical care.

To apply for this position, please contact:

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