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<b>Job Title</b>	Postdoctoral Fellow in Mercury Chemistry/Transport
<b>PVN ID</b>	JJ-1709-002053
<b>Category</b>	Research
<b>Location</b>	JOHN JAY COLLEGE OF CRIMINAL JUSTICE
<b>Department</b>	Sciences
<b>Status</b>	Full Time
<b>Annual Salary</b>	\$52,750.00 - \$57,750.00
<b>Hour(s) a Week</b>	35
<b>Closing Date</b>	Jan 27, 2022 (Or Until Filled)

## General Description

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The Mercury Laboratory at John Jay College of the City University of New York (<http://www.prismatjjay.org/carpi.html>) is seeking a highly dynamic and professional individual to serve as Postdoctoral Fellow and Student Research Mentor for a position currently funded for 1 year, with the opportunity for reappointment depending on funding.

The Mercury Laboratory, supervised by Dr. Anthony Carpi, has as its primary focus the investigation of the kinetics and mechanism of mercury reduction and transport in the environment. The laboratory has contributed significant advances in understanding the biogeochemical cycle of mercury in soils; see <http://www.prismatjjay.org/carpicv.pdf> for recent lab publications.

Under the general supervision of the Senior Scientist, the postdoctoral fellow will:

- Perform simple-to-very-complex research, investigation, and analytical activities.
- Perform many activities independently, with varying degrees of supervision depending on the scope and complexity of the project, the assignment, or the qualifications of the incumbent.
- Mentor undergraduate students and high school student on specific research projects.
- Write research and grant proposals, and abstracts.
- Review and comment on the work of undergraduate and other students in the lab.
- Recruit and interview individuals for laboratory operations.

## Other Duties

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Performs research activities, records observations, and interprets results, using existing protocols and establishing new protocols as needed; assists with complex activities; assists in gathering, providing, and interpreting information for routine reports. May be assigned substantial independent responsibility for major/complex portions of a research project. Provides professional support to the Senior Scientist, including

drafting project reports and grant proposals, making presentations, meeting with sponsors, and organizing intellectual exchanges with other researchers/scholars in person or via telecommunications.

- Trains new employees in routine processes.
- Works with technical staff and other research staff to coordinate projects; ensures the safe operation of equipment and the effective completion of assignments by following protocols and accurately documenting research findings and progress.
- Consults with other researchers and authorities in the field as appropriate.
- Assists in planning meetings, conferences, web-based communication etc.; maintains confidentiality as required by the project or as directed by supervisors.
- Assists in designing measures, sampling techniques, and instruments to measure results; follows protocols for gathering qualitative and/or quantitative data, coding data or information, constructing data bases using specified technology, analyzing data, maintaining data security, and archiving data as needed.
- Keeps accurate, well-organized records.
- Performs the duties of lower level positions as needed; performs other duties as assigned.

## Qualifications

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### Core Competencies:

Intellectual strength in the area of mercury transport, chemistry, and /or biogeochemistry as evidenced by areas of study, teaching, publication and/or research background; knowledge of cutting-edge research in the field.

- Ability to comprehend and act on assignments of varying complexity, and handle multiple assignments.
- Ability to work on a team as well as independently.
- Ability to use effectively all research equipment and devices standard to the field; ability to use and manage web-based technology, as needed.
- Ability to troubleshoot analytical instruments including, but not limited to, mercury analyzers.
- Ability to perform mechanical and software setup and update of laboratory instruments and devices.
- Ability to operate in the computer/statistical environment of the research project
- Ability and experience authoring or co-authoring reports and papers of substantial complexity; when assigned, ability to organize and participate in colloquia, symposia, presentations of reports, demonstrations, performances, etc. consistent with the scope and nature of the project and the requirements of the sponsor.
- Ability to exercise intellectual leadership in anticipating and resolving research issues.
- Ability to supervise and mentor high school students, undergraduate, graduate, and laboratory personnel.
- Ability to communicate effectively with and convey complex concepts, intricate processes, and sophisticated statistical findings to other researchers, supervisors, students, sponsors, administrators, and, when appropriate, the public; ability to listen and respond to the concerns/ideas of others in a constructive manner.
- Knowledge of protocols for safe conduct of research, including but not limited to the handling of toxic substances, the study of human subjects, and establishment of safety reporting procedures.

### Qualifications:

An earned Ph.D. in an appropriate field of study from an accredited institution, and intellectual strength as evidenced by a record of research, publications, and scholarship in a related field, and/or other accomplishments (e.g. significant participation in important inventions, artistic endeavors, etc.).