



Society for Analytical Chemists of Pittsburgh

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SACP SUMMER INTERNSHIP PROGRAM

The Society for Analytical Chemists of Pittsburgh (SACP) will sponsor two internships during the summer of 2010. Chemistry, chemistry education or biochemistry majors who are currently juniors are eligible for the program. Senior chemistry majors who plan to pursue graduate studies in the fall of 2010 may also apply. Internships are tentatively available at the following company and institution:

Carnegie Science Center
PPG Industries, Inc. – Central Research Division in Pittsburgh

Attached is a brief description of each company and the work to which the student will perform during internship. The internships are for approximately three months, with a monthly stipend of \$1,000.

To apply for one of the positions, the following are required:

1. A letter expressing your interests in chemistry.
2. Your first and second preferences for the location of your internship.
3. A letter of recommendation from your chemistry professor and/or chemistry advisor.
4. A current transcript. (Transcript does not have to be official.)
5. Current school and home addresses and telephone numbers.

Application Deadline: March 22, 2010

Application materials are to be sent to:

SACP
Summer Internship Program
300 Penn Center Blvd, Suite 332
Pittsburgh, PA 15235-5503

SACP Science Theaters Summer Internship Position Description

Duties

- Learn and perform science carts and theater presentations in the Works Theater, Kitchen Theater, Science Stage, or other select locations in Carnegie Science Center as assigned and scheduled by the Science Theaters Coordinator.
- Communicate scientifically and historically accurate information.
- Provide informal education experiences to CSC visitors that delight, educate, and inspire.
- Provide excellent customer service to CSC visitors; undergo CSC customer service training.
- Provide a safe environment for CSC visitors; undergo CSC safety training.
- Operate and demonstrate theater equipment in a safe, hygienic and competent manner as assigned and scheduled by the Science Theaters Coordinator. This includes, but is not limited to the following: Chemistry lab, Sky-Skan show control systems, Magic Planet, molten aluminum foundry, electrical demonstration equipment, cryogenics equipment, and prep Kitchen.
- Maintain Materials Safety Data Sheets and current chemical inventory. Participate in chemistry lab projects as assigned and scheduled by the Science Theaters Coordinator.
- Model safe behavior in chemical handling for the Science Theaters team.
- Assist Program Development Coordinators in the Science & Education division during times scheduled by the Science Theaters Coordinator. Participate in brainstorming and testing new chemical demonstrations for the Science Theaters and other program areas as assigned.
- Maintain a daily log with reflections on progress in learning and performing existing presentations, and in developing new ones. Submit this log to the Science Theaters Coordinator at the conclusion of the internship.

Parameters

- Not responsible for administering first aid.
- Internship begins and ends within the same Summer semester period.

Responsible to:

- Science Theaters Coordinator

Duties directed toward:

- CSC visitors
- Science Theaters staff and volunteers
- Program Development Coordinators

Summer Internship Analytical Research

PPG Industries is soliciting applications for a summer intern in the Analytical department of its Central Research Division in Pittsburgh. The applicant should be a college chemistry major degree program beginning his or her Junior or Senior year.

The intern responsibilities involve work in the microscopy lab of the coatings technical center. Job functions include preparation of samples for analysis. Training in techniques such as cutting, grinding and polishing, and microtomy is planned, as is basic analysis by optical and electron microscopy. Some exposure to other microscopic techniques is anticipated, including profilometry, FTIR microscopy and AFM.

A second aspect of work involves the processing of Infra-red spectra and assembly of a data base for multi-variate analysis. The goal of this project is to determine the feasibility of using statistical analysis programs as a predictive tool in evaluating the aging of automotive coating systems under various weathering conditions. Some work in building Infra-red library data bases is also anticipated.

This intern program provides the successful applicant with an opportunity to experience and learn the workings of an analytical lab in an industrial environment. Interaction with a variety of scientists in multiple areas of expertise and exposure to state of the art instrumentation will enhance the value of the incumbent's education while allowing for a valuable contribution to the technical efforts of PPG Industries.