SCIENCE TEACHING OPPORTUNITIES
Chemistry & Related Courses
- Summer 2008 -

Who: Johns Hopkins University Center for Talented Youth (CTY) seeks outstanding science teachers, professors, graduate students, and undergraduate students to work in our summer programs.

What: CTY offers challenging 3-week academic programs for highly talented elementary, middle, and high school students from across the US and around the world.

Where: Residential sites in California, Hawaii, Maryland, Massachusetts, New York, Pennsylvania, and Rhode Island. As well as in China, Mexico and Spain. Day Site locations in the Baltimore-Washington, DC, Los Angeles, and San Diego areas.

When: Session 1: June 26 – July 19
Session 2: July 19 – August 9
Instructors and teaching assistants may work one or two sessions.

Why: Teach what you love, work with exceptional students in small classes, learn from talented colleagues, and enjoy a generous lab budget.

Salary: Instructors: $2100 – $3000 per 3-week session, based on experience.
Teaching assistants: $1100 per 3-week session.
Plus room and board at our residential sites.

Classes: 12 – 18 students
Each class has an instructor and teaching assistant.

Visit:
www.cty.jhu.edu/summer/employment
- Learn more about the program and courses
- Find full job descriptions and responsibilities
- Download an application

You may also contact us at 410-735-6185 or ctysummer@jhu.edu for more information.

Johns Hopkins is an Equal Opportunity Employer. Women and minorities are encouraged to apply.
Brief Course Descriptions

**Crystals and Polymers**
Students examine the structural and chemical features of crystals and polymers to better understand their properties. Students learn about metals, ionic solids, and composite materials such as orthodontic memory metal, discovering their features by building models ranging from simple cubic unit cells to network solids.

**Examining the Evidence**
By taking on the role of forensic scientists investigating different types of crime scenes, students develop their laboratory techniques and build knowledge of biology and chemistry.

**Medical Sciences: Pharmacology & Toxicology**
Students begin with a study of basic biochemistry, cell biology, and some human physiology. The course then moves into pharmacology and the effects of drugs and toxins.

**The Edible World**
Students take a closer look at the common products on grocery shelves, and use these items as a springboard to learn about chemistry and biotechnology.

**Fast-Paced High School Chemistry**
This course covers material ordinarily included in a year-long introductory course in high school chemistry (the usual prerequisite for honors or AP Chemistry).

**Chemistry in Society**
Designed for those who have not yet taken a chemistry course, this course gives students an introduction to the field of chemistry and its uses in the world around us.

**Nuclear Science**
This course covers the principles governing atomic and nuclear structure, radioactivity, and nuclear processes. Students employ these principles to understand technologies such as carbon-14 dating, treatments for cancer, nuclear reactors, and the effects of radiation exposure.

For full course descriptions and sample syllabi please visit our website: www.cty.jhu.edu/summer/employment

e-mail ctysummer@jhu.edu, or call 410-735-6185.