

**VISITING SCIENTIST PROGRAM  
WITH THE  
FEDERAL BUREAU OF INVESTIGATION (FBI) LABORATORY  
COUNTERTERRORISM/FORENSIC SCIENCE RESEARCH UNIT (CTFSRU)**

**ANALYTICAL CHEMISTRY**

**Immediate openings - Spring 2003**

**Project # CTFSRU2003-05**

The Counterterrorism/Forensic Science Research Unit (CTFSRU) of the Federal Bureau of Investigation (FBI) Laboratory is located on the campus of the FBI Academy in Quantico, Virginia. CTFSRU provides technical leadership and the advancement of forensic science for the FBI as well as state and local law enforcement agencies. Unit scientists are responsible for research and development activities as well as the validation and transition of new forensic procedures/protocols to the case-working units within the Laboratory Division of the FBI. These scientists publish results of completed research projects in scientific journals, present findings at scientific meetings, and provide advanced technical training via formal classes and training symposia.

Since 1982, the CTFSRU has sponsored a Visiting Scientist Program. Visiting Scientists are practicing forensic scientists, government scientists on sabbatical leave, university faculty, postdoctoral fellows, graduate students, or undergraduate students. They conduct laboratory and/or computer research, primarily involving analytical chemistry (e.g. analysis of toxins, trace materials, explosives, drugs), molecular biology (DNA), or computation of large data sets, under the guidance of a scientist(s) within the unit. These projects are focused on meeting the needs of the FBI's operational units.

The CTFSRU seeks qualified post-doctoral candidates to participate in scientific research in forensic chemistry. Applicants must have completed their doctoral degree within the last three years or expect to complete all requirements before beginning the program. Applicants should also have an interest in forensic science, be conducive to acquiring new laboratory skills, and be able to provide their own transportation and lodging. Finally, selection is contingent upon the successful completion of a comprehensive background investigation.

Post-doctoral projects are currently available in analytical chemistry. The description and requirements for these projects are as follows:

**Analytical Chemistry, Forensic Chemistry, and Material Science:** These projects will involve the development and comparison of analytical methods for characterization of a variety of materials using the concentrations of major, minor, and trace elements. Materials to be studied will include glass, metals, plastics, and minerals. A strong background in analytical chemistry with extensive experience in x-ray methods, to include both electron beam-induced and x-ray-induced XRF and in

atomic spectroscopy methods, to include ICP-AES and LA-ICP-MS. A background in statistical interpretation of multivariate data is also desirable. Multiple candidates may be selected depending upon the background of the candidates and the research requirements.

Applicants must submit to a comprehensive background investigation. Due to the time required for completion of the background investigation, applicants should apply a minimum of 3 months before their desired start date.

The program is open only to U.S. citizens without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a Vietnam era or disabled veteran. The participants will be selected based on academic records, recommendations, applied research interests and compatibility of background with applied research programs and projects at CTFSRU; successful completion of the background investigation; and availability of funds, staff programs, and equipment.

The appointments are full time at CTFSRU for one year, renewable for up to two additional years, pending authorization and funding from CTFSRU. The participants will receive monthly stipends in the \$4,000 to \$4,400 range (\$48,000 to \$53,000 annually). Inbound travel and moving expenses may be reimbursed according to established policies. Travel and other costs may also be reimbursed for research or training related to the project if approved by CTFSRU.

The participants must show proof of health and medical insurance. Health plans for postgraduate participants are available through the Oak Ridge Institute for Science and Education.

Applications are accepted and processed on a continuing basis. This program for CTFSRU is administered by the Oak Ridge Institute for Science and Education. Please reference Project # CTFSRU2003-01 when calling or writing for information. For additional information and application material please send CV to:

Research Participation Program  
Attn: Betty Bowling  
Oak Ridge Institute for Science and Education  
P.O. Box 117  
Oak Ridge, TN 37831-0117  
Email: [bowlingb@ornl.gov](mailto:bowlingb@ornl.gov)  
Phone: (865) 576-8503  
Fax: (865) 241-5219