

American Chemical Society
Center for Professional Development

2013 Planning Guide

Whatever you want to do, ACS Careers can help!

- ◆ Land your first job?
- ◆ Switch jobs?
- ◆ Find a job after a period of unemployment?
- ◆ Change career paths and develop new skills?
- ◆ Find your own entrepreneurial venture?
- ◆ Find new challenges after retirement?
- ◆ Get a promotion?

ACS Careers supports the professional aspirations of ACS members with many free resources:

C&EN Jobs

Your number one tool for finding open positions that match your skills and goals.

Personal Career Consulting

ACS Career Consultants are ACS members with an abundance of first-hand work experience, and are dedicated to helping you discover and achieve your career goals.

Career Fairs and Workshops – Onsite and Virtual

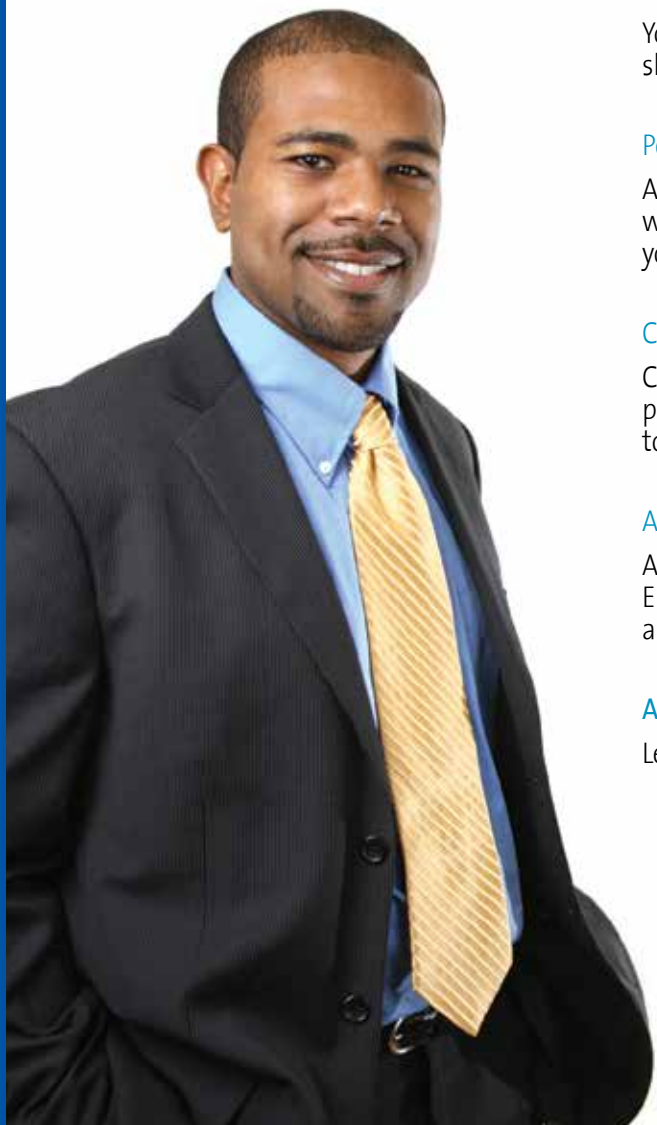
Career fairs give you the opportunity to network and interview with prospective employers as well as gain essential knowledge and skills to attain your career goals.

ACS Entrepreneurial Resources Center and Training Program

ACS offers resources to help chemists start businesses, and offers an Entrepreneurial Training Program that stimulates innovation and entrepreneurship.

ACS Careers has many more resources.

Learn more at www.acs.org/careers or contact us at careers@acs.org.



ACS Careers
Advancing your career every step of the way.



OnDemand
Choose what you need,
when you need it.

OnDemand

OnDemand courses are a great option for those who need complete flexibility at an affordable price. Each course is broken into one or more modules that you can purchase individually at a very low cost.

You will automatically receive access to your course module(s) within one business day, or you can request to start your access at a later date. Modules are available for seven days and includes access to the instructor.

- Across the Spectrum: Infrared Spectral Interpretation
- Advanced Statistical Analysis- Hypothesis Testing and ANOVA
- Beakers to Barrels: Innovation Management
- Beakers to Barrels: The Essentials
- Chemical Kinetics Mechanisms
- Chemistry Basics for the Non-Chemist
- Ecological Risks of Chemicals
- Essentials of Chemical Kinetics
- Excel Basics for Statistical Analysis of Laboratory Data
- Fundamentals of Fourier Transform Infrared Spectroscopy
- High Performance Liquid Chromatography Basics
- Introduction to Statistical Analysis of Laboratory Data
- Introduction to Statistical Calibration of Laboratory Methods
- Principles of Analytical Chemistry
- Solid State Characterization of Organic Compounds
- Specialized Topics in Chemistry for Non-Chemists

**Learn more at proed.acs.org/products-services/ondemand/
or contact us at shortcourses@acs.org.**

➤ *CLICK IT for more information!*

Online short courses are the best way to get the same high-quality instruction you expect from ACS without leaving your desk.

Online Courses

In an online short course, students meet live with the instructor and their peers over a period of weeks. Classes are small so content can be customized to relate directly to the needs of the students. The time between sessions allows students to absorb what they have learned and return the next week with questions. Each course includes email access to the instructor, downloadable materials, and access to the session recordings, in case attending the live session is not possible.

- Beaker to Barrel: Chemical Engineering for Chemists
- Chemistry for Non-Chemists
- Computer Simulation of Reactive Flows
- Effective Technical Writing
- Essentials of Modern HPLC/UHPLC 1: Fundamentals and Applications
- Essentials of Modern HPLC/UHPLC 2: Practice, Operation, Troubleshooting and Method Development
- Essentials of Organic Chemistry
- Introduction to Statistical Analysis of Laboratory Data
- Patent Law Fundamentals
- Pharmacokinetics and Pharmacodynamics in Drug Discovery for Chemists
- Pharmacology for Chemists in Drug Discovery
- Polymorphism in Organic/Pharmaceutical Systems
- The Basics of Gas Chromatography
- Toxicology for Chemists

Learn more at
proed.acs.org/products-services/online-short-courses/ or
contact us at shortcourses@acs.org.



Short Courses |

Available in one- to five- days class room settings held in convenient locations.

La Jolla, CA ~ February 2013

- Essentials of Modern HPLC/UHPLC 1: Fundamentals and Applications
- Essentials of Modern HPLC/UHPLC 2: Practice, Operation, Troubleshooting and Method Development
- Laboratory Safety
- Methods Development, Validation Procedures, and Regulatory Compliance Issues
- Organic Synthesis: Methods and Strategies for the 21st Century Chemist
- Pharmacokinetics and Pharmacodynamics in Drug Discovery for Chemists
- Practical Applications of Mass Spectrometry for Small Molecules
- Project Management for Technical Professionals
- Qualification and Validation of Laboratory Instruments and Equipment for Regulatory and QS Compliance (IQ, OQ, PQ)
- Quality Control of Small Molecule Drugs and Biologics: Fundamentals and Best Practices
- Statistical Analysis of Laboratory Data
- Structure Based Drug Design

New Orleans, LA ~ April 2013

- 1-D and 2-D NMR Spectroscopy: Structure Determination of Small Molecule Organic Compounds
 - Analysis and Interpretation of Mass Spectral Data
 - Applied Computational Modeling
 - Chemical Engineering for Chemists
 - Dispersions in Liquids: Suspensions, Emulsions, and Foams
 - Drug-like Properties: Optimizing Pharmacokinetics and Safety in Drug Discovery
 - Effective Supervision of Scientists and the Technical Staff
 - Effective Technical Writing
 - Essentials of Medicinal Chemistry and Pharmacology
 - Essentials of Organic Chemistry
 - Experimental Design for Productivity and Quality in Research & Development
 - From Kitchen to Plant: Industrial Production of Processed Food Products
 - Fundamentals of Food Packaging
 - Fundamentals of High Performance Liquid Chromatography
 - Introduction to Modern Mass Spectrometry
 - Introduction to Pharmaceutical Analysis
 - Mastering the Art of Writing Reasonable Organic Reaction Mechanisms
 - Methods Development, Validation Procedures, and Regulatory Compliance Issues
 - NMR Spectral Interpretation and Organic Spectroscopy: A Problem-Based Learning Approach
 - Particle Surface Modification Technologies for Improving Properties and Applications
 - Polymer Science and Technology
 - Polymeric Coatings
 - Practical Approaches to Patents and Other Forms of Intellectual Property
 - Understanding and Utilizing Atomic Force Microscopy: From Basic Modes to Advanced Applications
- [CLICK IT for more information!](#)

Philadelphia, PA ~ May 2013

- Analysis and Interpretation of Mass Spectral Data
- Organic Synthesis: Methods and Strategies for the 21st Century Chemist
- Pharmacokinetics and Pharmacodynamics in Drug Discovery for Chemists
- Practical and Applied Gas Chromatography

Cincinnati, OH ~ June 2013

- Chemical Engineering for Chemists
- Dispersions in Liquids: Suspensions, Emulsions, and Foams
- Effective Supervision of Scientists and the Technical Staff
- Experimental Design for Productivity and Quality in Research & Development
- Laboratory Safety
- Methods Development, Validation Procedures, and Regulatory Compliance Issues
- Qualification and Validation of Laboratory Instruments and Equipment for Regulatory and QS Compliance (IQ, OQ, PQ)

Philadelphia, PA ~ August 2013

- Drug-like Properties: Optimizing Pharmacokinetics and Safety in Drug Discovery
- How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting
- Introduction to Modern Mass Spectrometry
- Laboratory Safety & Health
- Recent Developments in Organic Synthesis

Indianapolis, IN ~ September 2013

- 1-D and 2-D NMR Spectroscopy: Structure Determination of Small Molecule Organic Compounds
- Capillary Electrophoresis of Biomolecules
- Chemical Engineering for Chemists
- Chemical Toxicology: A Chemist's Roadmap to Reduce Bioactivation Liabilities in Drug Candidates
- Computer Assisted Drug Design
- Dispersions in Liquids: Suspensions, Emulsions, and Foams
- Drug-like Properties: Optimizing Pharmacokinetics and Safety in Drug Discovery
- Effective Supervision of Scientists and the Technical Staff
- Effective Technical Writing
- Essentials of Organic Chemistry
- Introduction to Drug Metabolism: Role and Practice in Drug Discovery and Development
- Mastering the Art of Writing Reasonable Organic Reaction Mechanisms
- NMR Spectral Interpretation and Organic Spectroscopy: A Problem-Based Learning Approach
- Organic Synthesis: Methods and Strategies for the 21st Century Chemist
- Particle Surface Modification Technologies for Improving Properties and Applications
- Polymeric Coatings
- Polymer Science and Technology

➤ [CLICK IT for more information!](#)

Indianapolis, IN ~ September 2013 (continued)

- Practical Applications of Mass Spectrometry for Small Molecules
- Practical Approaches to Patents and Other Forms of Intellectual Property
- Project Management for Technical Professionals
- Statistical Analysis of Laboratory Data

Boston, MA ~ October 2013

- Analytical Method Transfer of Pharmaceutical Products
- Critical cGMP and ICH regulations for Pharmaceutical Laboratories
- Effective Supervision of Scientists and the Technical Staff
- Essentials of Medicinal Chemistry and Pharmacology
- Experimental Design for Productivity and Quality in Research & Development
- Laboratory Safety
- Pharmacokinetics and Pharmacodynamics in Drug Discovery for Chemists
- Practical Applications of Mass Spectrometry for Small Molecules

San Francisco, CA ~ November 2013

- Analysis and Interpretation of Mass Spectral Data
- Drug-like Properties: Optimizing Pharmacokinetics and Safety in Drug Discovery
- Methods Development, Validation Procedures, and Regulatory Compliance Issues
- Project Management for Technical Professionals
- Structure Based Drug Design

➤ *[CLICK IT for more information!](#)*



Learn more at proed.acs.org/products-services/products-services/short-courses/
or contact us at shortcourses@acs.org.

Houston, TX ~ December 2013

- Chemical Engineering for Chemists
- Conducting Successful OOS/OOT Investigations for Analytical Testing
- Critical cGMP and ICH regulations for Pharmaceutical Laboratories
- Dispersions in Liquids: Suspensions, Emulsions, and Foams
- How to Develop Validated HPLC Methods: Rational Design with Practical Statistics and Troubleshooting
- Laboratory Safety & Health
- Polymeric Coatings
- Practical and Applied Gas Chromatography
- Statistical Analysis of Laboratory Data

Lecture/Laboratory Courses

Lecture/Laboratory Courses at Virginia Tech

Polymer Chemistry: Principles and Practice

- March 24 – 29
- August 4 – August 9
- December 1 – December 6

Lecture/Laboratory Courses at Axion Labs

Gas Chromatography: Fundamentals, Troubleshooting, and Method Development

- April 15-18
- June 4-7
- October 22-25

High Performance Liquid Chromatography: Fundamentals, Troubleshooting, and Method Development

- May 7-10
- July 9-12
- November 19-22



➤ [CLICK IT for more information!](#)



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A background image of a molecular model with blue and yellow spheres connected by thin lines, set against a dark blue and purple gradient background.

Revolutionary New Program for Professional Scientists

Do you have the skills and knowledge you need to move forward in your professional career?

Try Sci-Mind™ for a change.

Sci-Mind™ is an extraordinary opportunity for the industrial scientist to use the knowledge of experts in their field to design exactly the training they need to keep their career moving forward. This innovative program lets you select only the topics you need and want to learn about, connects you with a network of your peers, provides top-flight experts to support you, and documents your progress at the end of the program.

2013 Topic Areas:

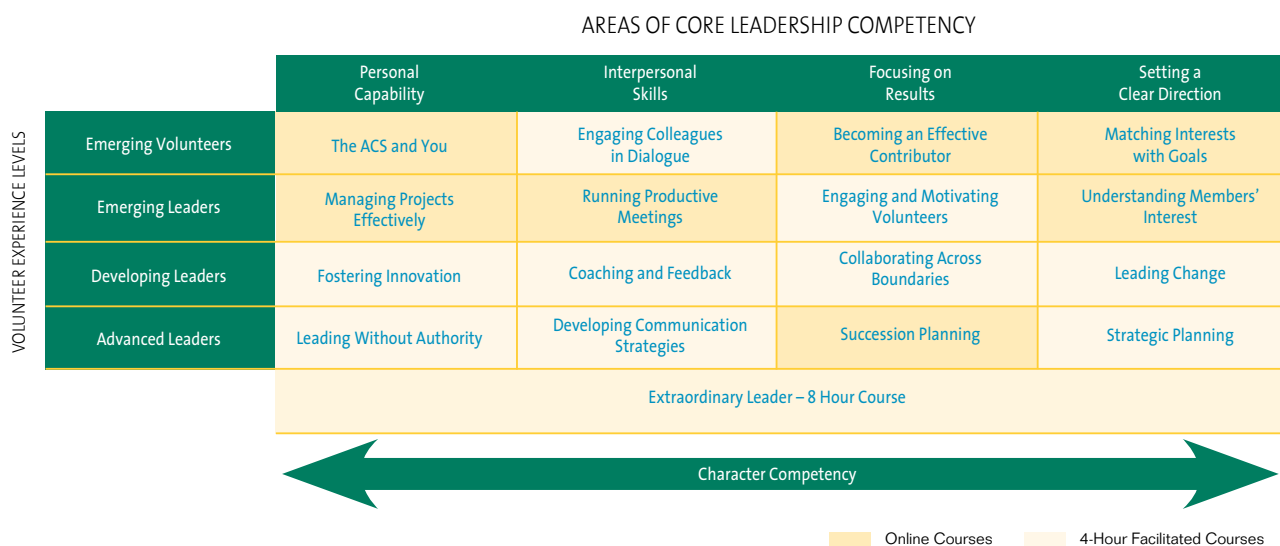
- ◆ Separation Science
- ◆ Toxicology for Scientists
- ◆ Polymer Chemistry

Visit www.proed.acs.org/sci-mind/ for more information and to start your experience with the Sci-Mind™ Analyst.

ACS Leadership Development System™

The ACS LEADERSHIP DEVELOPMENT SYSTEM™ is a competency-based, integrated framework of learning modules designed to help members develop into highly skilled leaders. This comprehensive leadership curriculum provides you with practical courses to advance your career, help you to be more effective in your position, and equip you with tools to more effectively lead ACS volunteer initiatives.

The suite of courses listed below provides you with an opportunity to take courses in a face-to-face setting as well as on-line.



Facilitated courses are offered throughout the year at local sections, regional and national meetings. You can find our facilitated course schedule [here](#). On-line courses are self-paced and are available 24/7.

Who Should Participate:

Chemical professionals who wish to grow and develop in their roles, starting with the “basics” for emerging volunteers and progressing to advanced learning for leaders with the most experience. There is a course to meet everyone’s professional development needs.

Facilitated Courses – 4 hours

ACS Member Price: \$150 ~ Non-Member Price: \$300

(A limited number of scholarships are available for each course)

On-line Courses – Self-paced

ACS Member Price: \$25~ Non-Member Price: \$50

Contact us today at leaders@acs.org for scholarship and registration information!