Chemistry – Industrial Chemistry

What can I do with this major?

Related Career Titles

Search for potential careers/jobs with these position titles.

- Industrial Chemist
- Industrial Engineer
- Process Engineer
- Manufacturing Engineer
- Project Engineer
- Design Engineer
- Chemical Engineer
- Geochemist

Professional Organizations

Affiliate yourself with groups to network and learn about the field

- ✓ *Chemistry Club, UHD group*
- ✓ *Society of UHD Engineers*
- ✓ *Houston Chemical Association*
- ✓ *Association of Chemical Industry of Texas*
- ✓ *American Chemical Society*

Explore Career Specific Websites

www.acs.org | www.houstonchemical.org/ | www.acit.org/ | www.awis.org/ | www.chemjobs.net/ | www.chemistryjobs.com |

What is B.S. in Chemistry with Industrial Chemistry?

The Bachelor of Science in Chemistry with a concentration in Industrial Chemistry prepares students to enter a highly technical and demanding field, as well as continue studies at the graduate level. Industrial chemists monitor environmental conditions, develop new energy sources, use advanced methods for chemical analysis, develop new materials and chemical-based processes, assist in the marketing and sales of industrial chemicals, and study the chemistry of biological reactions important to new areas of biotechnology and human health.

Interested in discussing your career path possibilities?

Visit S-402 or Call
713-221-8980
The Career Development Center

Graduate School Considerations

*Programs not offered at UHD

Master of Science in Data Analytics
Master of Business Administration
of Science in Technical Communication
Master of Science in Industrial Chemistry*
Master of Science in Chemistry*
Master of Science in Geochemistry* Master
Master of Science in Chemical Engineering*

Community Partnerships

Research local organizations offering field experiences to students pursuing Chemistry with Industrial Chemistry.

American Chemical Society	Veolia	Kuraray America
Anheuser-Busch	Lubrizol Corporation	Lockheed Martin

Wesley Black

Houston, TX 832-555-5555
wblack@email.com

Summary

Skilled chemical laboratory researcher with 2 years of experience working with electrochemistry processes and analytic techniques and products in renewable energy.

SKILLS

Laboratory: Differential scanning calorimetry (DSC), thermal gravimetric analysis (TGA), gas chromatography (GC), nuclear magnetic resonance (H-NMR/C^{13}-NMR), infrared spectroscopy (IR), cyclic voltammetry (CV), and ultra-visible spectroscopy (UV-Vis)
Software: SPSS, DC Arc Optical Emission, Proficient in Microsoft (MS) Word, Excel, PowerPoint

EDUCATION

Bachelor of Science in Chemistry Candidate May 2020
University of Houston-Downtown, Houston, TX
GPA: 3.7
Awards: Scholar's Academy Scholarship Recipient

RELEVANT COURSEWORK

Physical Chemistry I and II August 2014-May 2015

- Conducted theoretical investigations of condensed phase properties and applications in battery and alternate electrical power systems

Analytical Chemistry I and II

- Explored impact of chemical processes on environmental hazards, deep sea 'black smoker' vents, early detection of cancer, high-speed DNA sequencing, bio-and chemical warfare agents and ultramicrofabricated sensors

RESEARCH

Chemistry Department Research Assistant Jan.2017-Present
University of Houston-Downtown, Houston, TX

- Research kinetics of attaching metalloporphyrins to self-assembled monolayers on gold electrodes
- Perform electrochemistry processes on the monolayers to improve electrical conductivity
- Synthesized research findings into 10-page paper to submit for publication

RELATED EXPERIENCE

Intern August 2017-August 2019
Texas Energy Group, Houston, TX

- Devised a renewable energy fact sheet which included information on renewable technologies, environmental benefits, economic impacts, and consumer education issues
- Gathered green power purchasing data from Phoenix metropolitan utilities and compiled report
- Updated website and social media outlets to notify others of organization's mission and events

Intern May 2016-August 2017
Shell Oil Corp., Houston, TX

- Collaborated with a team of 5 to develop an expanded testing method on the DC Arc Optical Emission Spectrometer to measure trace metal impurities in molybdenum metal
- Participated in the installation, operation, and maintenance of chemistry lab equipment and duties
- Installed and operated a wide variety of laboratory equipment including NMR and high-resolution lasers

PRESENTATIONS

UHD Student Research Conference, University of Houston-Downtown, Houston, Texas
"Kinetics of Attaching Metalloporphyrins to Self-Assembled Monolayers on Gold Electrodes," April 2015