

Talmage Research Internship

8-WEEK UNDERGRADUATE PROGRAM

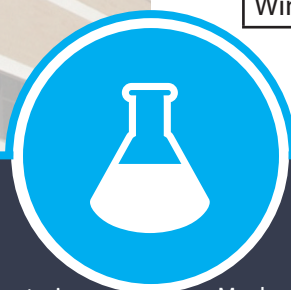
BRIGHAM YOUNG UNIVERSITY
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

Why Choose Us?

Talmage Research Internships offer the opportunity to perform high-impact research in a laboratory of your choice in the Department of Chemistry and Biochemistry at Brigham Young University. Research areas include biochemistry, organic, physical, analytical, inorganic, and theoretical chemistry. Many labs also offer the potential for crossover research in the areas of energy, materials, catalysis, and cancer. Interns will be trained using state-of-the-art equipment and novel instrumentation, for example, ion cyclotron resonance mass spectrometry, low temperature adiabatic calorimetry, ultra-high vacuum for temperature programmed reaction spectroscopy, and supercomputers. Internships are eight weeks and fulfill requirements for undergraduate universities with a capstone/internship requirement. Talmage interns are often contributing co-authors on peer-reviewed publications.

Term	Application Deadline	Internship Dates*
Summer	March 1	June 26 - August 18
Fall	July 15	Sept. 18 - November 10
Winter	Nov 1	Jan 22- March 15

*Internship dates may be modified to accommodate interns.



8-Week Overview

- Each week interns perform research in state-of-the-art laboratories under the direction of a chemistry or biochemistry faculty member
- Every day you will interact with postdocs, graduate students, and undergraduates as you perform research
- Each Tuesday interns participate in a "brown bag lunch" seminar series, which provides an opportunity to see and present research results (Summer term only)
- The research group you join will hold weekly group meetings
- There will be a capstone recreational outing

Example of Past Projects

Mechanistic determination of C-C bond forming reactions using Carbon Dioxide • Hans Anderson (Brigham Young University – Idaho)
DNA-based fabrication of nanomaterials • Aleksei Ananin (Dixie State University)
Carrier multiplication in GaAs via frequency-specific THz electric field enhancement • Nicholas Ellsworth (Utah Valley University)
Understanding non-covalent ion- π interactions in peptide model systems • Mohammad Samha (Southern Utah University)

Requirements

- Non-BYU Provo students
- Complete the online application
- Two letters of recommendation
- Chemistry and Biochemistry majors completing sophomore or junior years (seniors or other majors will also be considered if you have made contact with a chemistry faculty member)
- The goal of attending graduate school in biochemistry or chemistry

Compensation

- Up to \$3200 stipend
- \$250 for travel (\$450 for students outside the continental US)
- \$1200 towards room and board
- Total will be reflected as an average wage of \$14.50 per hour

Application

The application package, consists of the application form (completed, dated, and signed), a current transcript (unofficial is acceptable), and two letters of recommendation from chemistry or biochemistry instructors.

The application form can be found at: <http://www.chem.byu.edu/undergraduate-students/undergraduate-research/talmage-summer-research-internship/>