Finding and Securing Research Opportunities

Biochemistry & Cell Biology undergraduate research contact information:
Dr. Dereth Phillips: BIOC 115 and BIOC 310. Office: 340 Anderson Biological Labs; email: derethp@rice.edu

Ecology & Evolutionary Biology undergraduate research contact information:
Dr. Adrienne M. S. Correa. Office: 201D Anderson Biological Labs; email: ac53@rice.edu
Dr. Scott Solomon. Office: 130D Anderson Biological Labs; email: scott.solomon@rice.edu

Think about the sorts of research that may be of interest to you and talk to students and advisors in that area of research. Explore on your own by searching through different research departments at Rice, at the Texas Medical Center, or in the greater Houston area. You can learn about the research in a particular department by going to the “Faculty” or “People” lab and clicking through the various faculty names and research statements. At the same time, join the “BioSciences Opportunities” OwlSpace site to receive information about research opportunities at Rice and elsewhere. When you have found a lab(s) of interest, scan through recent research articles from that lab and contact the professor to express your interest. [If you are a BIOC major, before contacting the professor, it may be helpful to read the BIOC 310 course manual to get a feel for the expectations of an undergraduate researcher (www.bioc.rice.edu/bioc310/)]. Determine the nature of your engagement (volunteer, for pay, for credit, for one semester/summer, for multiple years). If you are interested in receiving credit for your research, contact the instructor of the research-for-credit/independent study course in the appropriate department. Links to the BioSciences Department and to various off-campus departments may be found on the department website in the section “Research and Internships” under “Undergraduate Studies.”

Independent Research in BioSciences and Beyond

Once you have found a research position, you may be eligible to receive course credit in an appropriate department. All of the following courses may be taken by permission only. Please contact the course instructors for additional details and requirements.

- BIOC 310/401/402—BioSciences: Program in Biochemistry & Cell Biology
- EBIO 306/403/404—BioSciences: Program in Ecology & Evolutionary Biology
- BIOE 400/401—Bioengineering
- CHEM 391/491/492/493—Chemistry
- CHBE 499—Chemical & Biomolecular Engineering
- ESCI 481—Earth Science
- KINE/HEAL 495/496—Kinesiology
- NEUR 310/401/402—Neuroscience Program
- UNIV 301—University-wide, zero-credit, for all majors, all types of projects qualify
- HONS 470/471 (RUSP)—University-wide companion course for research in all majors

Find the course number/department that best matches your research interests. Most departments, including those not listed here, have an independent study/research course.

Note for those interested in the health professions: There are many types of research that can improve human health outside of the biological sciences (health disparities, healthcare economics, medical sociology, psychology of addiction, et al.). For the most fulfilling research experience, make sure to pursue the research that most interests you rather than that which you perceive is desired by medical schools.
Undergraduate Research in BioSciences

Undergraduate research is an important component of the BioSciences programs, and, while not required for the major, undergraduate research can enhance the undergraduate experience and provide opportunities for career development. Research experience is becoming a critical element for admission to professional schools and is particularly important for those applying for biological graduate programs or intending to go directly into industry research labs. The undergraduate research programs in BioSciences have been designed to flow from observation through participation. Students are encouraged to seek undergraduate research opportunities whenever they are ready. Freshmen seminars (BIOS 115, EBIOS 116, ENST 117) and laboratory fundamentals courses (BIOS 112, NSCI 120 & EBIOS 213) are designed to provide students in each major with the exposure and basic skills to navigate early entry into labs. The following courses offer opportunities to experience and participate in active research programs at Rice and, for some, in the Texas Medical Center, Houston Zoo, Houston Museum of Natural Science, Houston Arboretum and Nature Center, Flower Garden Banks National Marine Sanctuary NOAA Office (Galveston), and other off-campus research sites.

BIOS 115/FSEM 115 Freshman Seminar in Local Biology Research
EBI 116/FSEM 116 Freshman Biology Seminar
ENST 117 Freshman Seminar in Local Environmental Science Research

These half-semester seminar courses introduce freshmen interested in biology to the excitement of research at Rice and across Houston. Small groups meet weekly with a graduate student or postdoctoral researcher to explore a published research article by a local lab, gaining background information about the subject and exposure to the research techniques. At the end of the course, students will meet researchers and tour labs at Rice and elsewhere in the Houston research community. All first-year non-transfer students are eligible to enroll. EBIOS 116 meets in the 1st half of each semester and BIOS 115 and ENST 117 meet in the 2nd half of each semester (www.bio.rice.edu/bios115/).

EBIOS 306: Independent Research in Ecology & Evolutionary Biology
This course provides a program of independent research for students with previous training in the biosciences. Students are generally expected to spend an average of 3 hours per week in the laboratory for each semester hour of credit and to write a research paper. Students taking ≥2 hours of credit for this course are encouraged to present their research at the university annual undergraduate symposium in the spring semester. Venues for research are both inside Rice and in the larger Houston community. Permission of the instructor is required. Suggested prerequisite is BIOS 213.

BIOS 310: Independent Research in Biochemistry & Cell Biology
This course is research-for-credit; students perform research for an average of 3 hours per week per credit hour in faculty laboratories in BioSciences at Rice and elsewhere in the Texas Medical Center, prepare a research proposal, weekly reports and a research paper (Fall) or poster (Spring), and receive course credit for their effort. Those intending to participate in BIOS 310 undergraduate research should take BIOS 112 or NSCI 120 or BIOS 211 (with permission). Please read the BIOS 310 manual for complete information and requirements. (http://www.bio.rice.edu/bios310/).

If intending to pursue research off-campus, please submit an application to the BIOS 310 Instructor (http://www.bio. Rice.edu/bios310/) at least 3 weeks before the start of the semester for permission to enroll. The BIOS 310 off-campus regulations may be obtained from the BIOS 310 website. Students working off campus may not take BIOS 310 for fewer than 3 credit hours (9 hours of research/week).

BIOS 401/402/412: Honors Research in Biochemistry & Cell Biology
The Biochemistry & Cell Biology Honors Research Program is a suite of courses offering our seniors and advanced juniors the opportunity to perform a two-semester, individual research project in a research laboratory in biochemistry & cell biology at Rice or elsewhere in the TMC and requires substantial time devoted to the research project (minimum 3 hours per week per credit hour). This immersive program is intended to give a first-hand experience of what a career in research would entail. Students interested in graduate school are strongly encouraged to apply for consideration for honors research. Information and application can be found here: https://biosciences.rice.edu/Content.aspx?id=2147483811/3.

EBIOS 403/404: Senior Research in Ecology & Evolutionary Biology
This course for research in EBIOS is open only to undergraduate majors during their senior year and requires permission of the research supervisor and chair. Applications are due in April of the previous academic year. Registration for EBIOS 403/404 implies a commitment to participate in research for at least 2 semesters.

BioSciences Opportunities OwlSpace List
On this Joinable site, we post various biology-related opportunities. Examples include: Research opportunities, summer internship programs, information sessions, fellowships, jobs, study abroad, et al. This site/mailing list is a great way to hear about biological and biomedical research opportunities on/off the Rice campus. To join, log on to OwlSpace using your netID and password and go to "My Workspace"-> "Membership" -> "Joinable Sites" and select BioSciences Opportunities.
There are many different summer options for those with biological or biomedical research interests!

Many of the following links can be found on the BioSciences undergraduate research page:
http://biosciences.rice.edu/UG_Research.aspx

1) Work in the lab of various professors at Rice or elsewhere in the Texas Medical Center
Visit various departments’ faculty lists to identify a professor whose research is of interest to you. Express interest and ask them if they would be willing to hire a summer undergraduate researcher. Many research internship postings can be found by joining the BioSciences Opportunities Owl-Space site. To join, log in to Owl-Space (https://owlspace-ccm.rice.edu/portal) and select: “My Workspace” -> “Membership” -> “Joinable Sites” and select Biosciences Opportunities.

There are also a number of more formal internship programs (below). These feature research in a faculty lab but also have some enrichment activities (seminar series, ethics discussions, social outings, etc.).

2) Rice undergraduate biological science summer programs
Institute of Biosciences & Bioengineering (see Research Training for summer programs)
http://ibb.rice.edu/Content.aspx?id=74
IBB BioSciences Summer Research Institute (for those already in BioSciences labs)
https://biosciences.rice.edu/UG_Research.aspx#5
NSF REU in Multi-Scale Biomolecular Networks
http://ibb.rice.edu/Content.aspx?id=563

3) Houston summer science programs
  Baylor College of Medicine SMART Program
  http://wwwbcm.edu/smart/
  UT Houston McGovern Med School Summer Research Program
  https://med.uth.edu/oep/medical-education/student-programs/summer-research-program/
  UT MD Anderson Cancer Center Summer Programs
  www.mdanderson.org/summer

4) Directories of internships around the country
  National Science Foundation Research Experiences for Undergraduates (NSF-REUs)
  http://www.nsf.gov/crssprgm/reu/reu_search.cfm
  Association of American Medical Colleges Summer Internships
  http://www.aamc.org/members/great/61052/great_summerlinks.htm
  Amgen Scholars Program (various sites around the country)
  http://www.amgenscholars.com/

5) Co-op/Internships and Summer Research
This listing, compiled by Tom Frederick, emeritus professor at Rochester Institute of Technology, contains links to internships at private biotech companies as well as those at academic institutions.
http://people.rit.edu/gtrfsbi/Symp/summer.htm

Dereth Phillips, Ph.D.
Inter-Institutional Liaison for Undergraduate Research (BioSciences)
Department of BioSciences, Rice University
Office: 340 MD Anderson Biological Labs, phone: (713) 348-2343, email: derethp@rice.edu
web: www.bioc.rice.edu/bioc115/

Links active 11/20/2017
Things to consider before you apply to a summer research program

Before applying to any summer programs, make sure you take the time to think about what you want to get out of an internship. What are your interests? What are your career goals? Are you applying to the right program for the right reason? Do you really want to spend your summer in a lab or would you prefer to work in a clinic, a policy think tank, a company, the field, etc.?

If you are already participating in a research lab that you enjoy, don’t feel like you have to go somewhere else for a summer research program. Talk to your research professor to see if s/he is willing to employ you for the summer. If you stay in your current lab, you already have a running start into your research for the summer and are more likely to produce publishable results during your time at Rice. Many labs at Rice and elsewhere in the Texas Medical Center are affiliated with summer programs, so you may be able to stay in your existing lab AND apply to participate in activities sponsored by the affiliated summer program. Students who have secured research positions with BioSciences faculty are eligible to apply for the BioSciences Summer Research Institute (https://biosciences.rice.edu/UG_Research.aspx#5). Baylor College of Medicine, UT Health, and MD Anderson Cancer Center all have summer research programs affiliated with their graduate programs.

If you are not really interested in the sort of research featured in the summer program, even if you think the hosting institution/city is cool, please don’t apply to that program. Follow your interests! Many/most summer programs are hosted by graduate programs and are designed to increase the flow of students into that field, to increase the flow of particular demographics into a field for which they are traditionally underrepresented, and/or to recruit students to the hosting graduate program. Those reviewing applications are likely looking for students who are interested in graduate school in that field (unless the application specifically states otherwise).

Summer research programs usually require recommendation letters. These letters, unlike medical school recommendations, have to be completed separately for every program and often require different submission formats. You are asking a professor to put a lot of work into their letters so do your homework in advance!

Make sure that you...

1) request your letter well in advance of the deadline
2) do NOT apply to too many programs
3) follow through with your application after you have requested a letter
   (Don’t ask for a letter you don’t need)
4) think about what each recommender can actually say about you. Try to ask professors/employers who know you or your work enough to meaningfully endorse you.

Please be thoughtful about your applications, because you expect faculty members to be thoughtful about your recommendation letters. Hopefully this gives you a little to think about as you seek out summer opportunities!

We post a number of summer program ads on the BioSciences Opportunities Owl-Space site and in paper form outside of 340 ABL. What we post/display is in no way comprehensive and only represents what has made its way into our inboxes. For more comprehensive lists, see the following sites:

- Association of American Medical Colleges Summer Internships http://www.aamc.org/members/great/61052/great_summerlinks.htm
- Amgen Scholars Program (various sites around the country) http://www.amgenscholars.com/
- Co-op/Internships and Summer Research Opportunities in the Life Sciences http://people.rit.edu/gtfsbi/Symp/summer.htm
Fellowships to Support Summer Research

**Summer Undergraduate Research Fellowships (SURF) from various societies**

- **American Society of Plant Biologists (ASPB)**
  [https://aspb-surf.secure-platform.com/a/](https://aspb-surf.secure-platform.com/a/)
- **American Society for Microbiology (ASM)**
- **American Chemical Society (ACS) Organic Chemistry**
- **American Physiological Society (APS)**
- **American Society of Pharmacology and Experimental Therapeutics (ASPET)**
  [https://www.aspet.org/aspet/education-careers/aspet-programs/summer-undergraduate-research-fellow-surf-awards/summer-undergraduate-research-fellow-surf-individual-awards](https://www.aspet.org/aspet/education-careers/aspet-programs/summer-undergraduate-research-fellow-surf-awards/summer-undergraduate-research-fellow-surf-individual-awards)

**Link to portable funds for underrepresented students**

**Choose Development** from the Society for Developmental Biology (for underrepresented students and students with disabilities researching in SDB member labs)
[http://www.sdbonline.org/choose_development](http://www.sdbonline.org/choose_development)

**Owl-Edge Internship Fund** from Rice (for unpaid or underpaid opportunities)
[https://rice.joinhandshake.com/jobs/664915/share_preview](https://rice.joinhandshake.com/jobs/664915/share_preview)

Links active 11/1/2017
HOUSING, MEALS, AND TRANSPORTATION
Interns are responsible for their housing, meals, and local transportation. Housing is available at the University of Washington for approximately $2,000 for the duration of the program. Interns are eligible to purchase a subsidized transportation pass for $45. There is a free shuttle between the Fred Hutch and University of Washington campus that departs every 15 minutes.

HOW TO APPLY
Students interested in participating in the Summer Undergraduate Research Program may submit an application at: www.fredhutch.org/surp. The application deadline is Friday, January 12, 2018. Letters of recommendation for up to two references are due by Friday, January 19, 2018. Notification of acceptance will occur in mid-to-late-February.

CONTACT US
If you have any additional questions about the Summer Undergraduate Research Program that are not addressed in the Frequently Asked Questions section of the SURP website, please send an email to: SURP@fredhutch.org.

ABOUT THE FRED HUTCH
The Fred Hutchinson Cancer Research Center is a world-renowned nonprofit research institution working to improve the prevention, detection, and treatment of cancer, HIV, and many other diseases. To learn more about the Fred Hutch, visit: www.fredhutch.org/en/about.html.

BIOMEDICAL RESEARCH INTERNSHIPS
A catalog of internships for high school, undergraduate, post-baccalaureate, graduate, and first-year medical students offered nationwide can be accessed at: www.fredhutch.org/content/dam/public/education/surp/internships2016.pdf.

The Summer Undergraduate Research Program is supported in parts by the Cancer Center Support Grant (CCSG) CURE Supplement: P30 CA015704-42S4, US4 CA 132381 (Fred Hutch) and US4 CA 132382 (NMSU).
About the Summer Undergraduate Research Program

The Summer Undergraduate Research Program at the Fred Hutchinson Cancer Research Center (Fred Hutch) is an intensive, nine-week internship designed to provide research experience and mentorship for undergraduate students who are interested in biomedical research. Under the guidance of a faculty mentor, students will complete an independent research project and present their findings at a competitive poster session.

The program runs from Monday, June 11 through Friday, August 10, 2018. Students must be able to commit to this entire period in order to participate.

Areas of Research

Interns will be paired with a faculty mentor after selecting one of the following areas of interest:

- Basic Science: Conducts fundamental research in structural, genetic, molecular, cellular, developmental, and evolutionary biology;
- Human Biology: Interdisciplinary research; conducts lab-based and computational research at the interface of basic, clinical, and population sciences;
- Public Health: Uses large populations as a “laboratory” to look for links between cancer and its possible triggers, from diet and lifestyle to environmental and genetic factors. Conducts statistical, epidemiological, and prevention studies around the world;
- Clinical Research: Works to develop and analyze new treatments for cancers and other diseases; and
- Vaccine and Infectious Disease: Integrates computational, laboratory, and clinical research methods to advance the understanding of microbial pathogenesis and infectious disease processes.

To learn more about the specific research interests of Fred Hutch faculty, please visit www.fredhutch.org/en/labs.html.

Program Components

In addition to completing a mentored research project, interns will participate in professional development workshops designed to facilitate the preparation of competitive applications for graduate or medical school. Workshops include:

- Preparing a personal statement, resume, and abstract;
- How to successfully apply to graduate or medical school; and
- Preparing and presenting a scientific poster.

Interns will also attend weekly research seminars regarding a broad array of scientific topics. The program culminates with a competitive poster session.

The program also sponsors a number of social activities to foster interaction among interns and their mentors. Activities may include:

- Attending a Seattle Mariners MLB game or Seattle Sounders FC match;
- Riding the Seattle Great Wheel or touring the Theo Chocolate Factory;
- Taking a ferry to scenic Bainbridge Island; and/or
- Hiking the trails on Mount Rainier.

Eligibility Requirements

- U.S. citizen or permanent resident;
- Entering the summer BEFORE the final year (or semester or quarter) of undergraduate studies; and
- Strong background in the sciences or related area of interest.

Compensation

Interns will receive $4,794 (minus taxes) for their participation in the Summer Undergraduate Research Program.

Travel

Round trip travel costs (up to $450) are provided. Travel arrangements will be coordinated by program staff unless otherwise requested.

"This was my first laboratory experience outside of classes, so it was great to see how research labs operate and to have a project of my own. I'm very grateful for all the support, information, and encouragement I got as a 'first-timer' from everyone in the lab to the wonderful program staff."

— SURP Intern
Summer Program in Cancer Research
The University of Texas MD Anderson Cancer Center Science Park

The Summer Program in Cancer Research at MD Anderson Cancer Center's Science Park campus provides an authentic research experience for outstanding undergraduate and high school students considering careers in biomedical research. Students have the opportunity to work with a faculty mentor in cutting-edge cancer research areas such as molecular mechanisms of cancer, DNA damage and repair, and cancer epigenetics.

June 4 – August 10, 2018

Application Deadline: February 1, 2018

For more information and the application form, go to www.mdanderson.org/scienceparkeducation

About Science Park
Science Park is a basic research campus of The University of Texas MD Anderson Cancer Center located in Smithville, Texas, within driving distance from Austin. The campus is home to the Department of Epigenetics and Molecular Carcinogenesis, whose mission is to identify the genetic and epigenetic changes that contribute to cancer development. Nestled within the Lost Pines forest of Central Texas, the Science Park campus offers a unique, natural setting for cancer research.
Summer Undergraduate Research Program
Alfred I. duPont Hospital for Children in Wilmington, DE

Cardiology • Genetics • Healthcare Delivery Sciences • Immunology
Metabolic Disease • Musculoskeletal Disease • Neurology • Oncology • Orthopedics
Pulmonology • Rheumatology • Speech, Hearing, Balance • Tissue Engineering

June 4, 2018 – August 10, 2018
Paid Stipend
For more information: www.nemoursresearch.org/scholarship

Activities
Journal Club
Poster Sessions
Oral Presentations
Weekly Seminars

Requirements
3.2 minimum GPA
Enrolled in a college or university at time of application
Interest in research about pediatric health problems

Application Timeframe:
December 1, 2017 through January 15, 2018

APPLY!

Questions:
summerresearch@nemours.org
www.nemours.org/research
Summer Undergraduate Research Opportunity

Health Equity Summer Scholars Program (HESSP)

Accepting Applications
December 1, 2017 - January 15, 2018 for Summer 2018 Program
(June 4th - August 10th 2018)

Ten-week paid scholarships are available for undergraduate students to pursue health disparities research through a translational lens.

Projects include (subject to change):
- Variances in diabetes and dental disorders among children
- Survival by race of children with acute lymphocytic leukemia
- Subpopulation variability in pediatric renal cancer
- Health inequity in mortality from pediatric trauma
- Epidemiologic characterization of childhood opium overdose and mortality
- Correlation between childhood trauma, gene expression and health outcomes in adults
- Health inequity exposure effect in asthma severity and cerebral palsy co-occurrence
- Subpopulation differences in pediatric health, quality of life and health literacy
- Gene expression, physical activity and nutrition in chronic disease predisposition

Online application and information:
For more information on OHEI-HESSP:
https://www.nemours.org/about/why/healthequityinclusion.html
OHEI department questions: OHEI@nemours.org
Internship questions: SummerResearch@nemours.org

Apply Here
MEDICAL SCIENCE

GRADUATE PROGRAM

By providing a flexible and interdisciplinary curriculum with six diverse tracts, students receive a highly personalized and individually tailored training program. Students can select from campuses with distinct research strengths in Bryan-College Station, Temple and Houston.

DEGREES OFFERED

★ Doctor of Philosophy (PhD)
★ Master of Science (MS)

PROGRAM TRACKS

★ Biochemistry and Structural Biology
★ Cardiovascular and Lymphatic Biology
★ Cell and Molecular Biology
★ Clinical and Translational Science
★ Microbial and Molecular Pathogenesis
★ Neuroscience

PROGRAM FEATURES

★ Average graduation time of five years
★ Stipend support throughout training
★ Access to many research areas not typically seen in medical schools, such as veterinary medicine, chemistry and engineering.

★ FOR MORE INFORMATION:

Reynolds Medical Building,
Suite 147
1114 TAMU
College Station, TX 77843

979.436.0753

COM-GRADSTUDIES@tamhsc.edu
SUMMER UNDERGRADUATE RESEARCH INSTITUTION for the
STUDY OF KIDNEY DISEASE (SURISKD)

OBJECTIVE
To provide an intensive research training experience that leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions in kidney-related research. Topics of research will range from embryonic development and physiology to kidney cancer and imaging. Fellows will pursue individual research projects under the direction of a member of the graduate school faculty. Lectures, journal clubs and seminars by faculty members will supplement the research experience. Fellows will present their accomplishments at a Summer Student Research Program meeting hosted by the National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases.

ELIGIBILITY
Applicants must be enrolled in a science degree program at the undergraduate level and have completed the sophomore year. Criteria used in selecting fellowship recipients will include college grades, relevant experience, and letters of recommendation from faculty who can assess the applicant's potential for advanced training and success in research that integrates quantitative and biomedical science.

SALARY AND TENURE
Each fellowship award carries with it a $4,000 salary for the 10-week period beginning June 4, 2018 through August 10, 2018. This support is taxable and is the mechanism used by the university to pay SURISKD students for their training. If a fellow requires housing, the costs will be covered by the program; however, fellows are responsible for paying for their own travel expenses and will not be reimbursed by the SURISKD Program. Complete details about the SURISKD program can be found at www.utsouthwestern.edu/SURISKD.

HOW TO APPLY
The SURISKD application is available on-line at www.utsouthwestern.edu/SURISKD. Completed applications should be submitted by February 9, 2018. In addition to submitting an on-line application including uploaded transcripts, your reference letters must be received by February 23, 2018.

FOR ADDITIONAL INFORMATION
Contact Minerva Chihuahua, SURF Administrator, The University of Texas Southwestern Medical Center, 3323 Harry Hines Blvd., Dallas, TX 75390-9004, (214) 648-0747, minerva.chihuahua@utsouthwestern.edu.

(An equal opportunity institution)
SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS in STEM CELL Regenerative Science and Medicine

OBJECTIVE
To provide an intensive research training experience aimed at deciphering fundamental mechanisms and developmental principals of tissue formation, and to pioneer new approaches to rejuvenate and regenerate damaged organs. Fellows will pursue individual research projects under the direction of a member of the graduate school faculty. Lectures, journal clubs, and seminars will complement the research experience.

ELIGIBILITY
Applicants must be enrolled in a science degree program at the undergraduate level and have completed the sophomore year. Criteria used in selecting fellowship recipients will include college grades, relevant experience, and letters of recommendation from faculty who can assess the applicant's potential for advanced training and success in biological research.

SALARY AND TENURE
Each fellowship award carries with it $4,000 in support for the 10-week period beginning June 4, 2018 through August 10, 2018. This support is taxable and is the mechanism used by the university to pay summer fellows for their training. If a fellow requires housing, the costs will be covered by the program; however, fellows are responsible for paying for their own travel expenses and will not be reimbursed by the program. Complete details about the SURF-STEM CELL program can be found at www.utsouthwestern.edu/SURF-STEMCELL.

HOW TO APPLY
The SURF-STEM CELL application is available on-line at www.utsouthwestern.edu/SURF-STEMCELL. Completed applications should be submitted by February 9, 2018. In addition to submitting an on-line application included uploading transcripts, your reference letters must be received by February 23, 2018.

FOR ADDITIONAL INFORMATION
Contact Minerva Chihuahua, SURF Administrator, The University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75390-9004, (214) 648-0747, minerva.chihuahua@utsouthwestern.edu.

(An equal opportunity institution)
SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS (SURF)

in

Biological Chemistry  Immunology
Biomedical Engineering  Integrative Biology
Biophysics  Mechanisms of Disease
Cancer Biology  Microbiology
Cell Regulation  Molecular Biology
Chemistry  Neuroscience
Developmental Biology  Pharmacology
Genetics

OBJECTIVE
To provide an intensive research training experience that leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions in the biological sciences. Fellows will pursue individual research projects under the direction of a member of the graduate school faculty. Lectures and seminars by faculty members will supplement the research experience.

ELIGIBILITY
Applicants must be enrolled in a science degree program at the undergraduate level and have completed the sophomore year. Criteria used in selecting fellowship recipients will include college grades, relevant experience, and letters of recommendation from faculty who can assess the applicant's potential for advanced training and success in biological research.

SALARY AND TENURE
Each fellowship award carries with it $4,000 in support for the 10-week period beginning June 4, 2018, through August 10, 2018. This support is taxable and is the mechanism used by the university to pay SURF students for their training. If a fellow requires housing, the costs will be covered by the program; however, fellows are responsible for paying for their own travel expenses and will not be reimbursed by the SURF Program. Complete details about the SURF program can be found at www.utsouthwestern.edu/SURF.

HOW TO APPLY
The SURF application is available on-line at www.utsouthwestern.edu/SURF. Completed applications should be submitted by February 9, 2018. In addition to submitting an on-line application included uploading transcripts, your reference letters must be received by February 23, 2018.

FOR ADDITIONAL INFORMATION
Contact Minerva Chihuahua, SURF Administrator, The University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75390-9004, (214) 648-0747, minerva.chihuahua@utsouthwestern.edu.

(An equal opportunity institution)

UTSouthwestern
Graduate School of Biomedical Sciences
QUANTITATIVE AND PHYSICAL SCIENCES
SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS (QP-SURF)

in
Biomedical Engineering
Biophysics
Computational Biology
Chemistry
Systems Biology

OBJECTIVE
To provide an intensive research training experience that leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions at the interface of quantitative science and basic biomedical research. Fellows will pursue individual research projects under the direction of a member of the graduate school faculty. Lectures, journal clubs and seminars by faculty members will supplement the research experience.

ELIGIBILITY
Applicants must be enrolled in a biomedical engineering, physics, computer science, mathematics, or chemistry degree program at the undergraduate level and have completed the sophomore year. Criteria used in selecting fellowship recipients will include college grades, relevant experience, and letters of recommendation from faculty who can assess the applicant's potential for advanced training and success in research that integrates quantitative and biomedical science.

SALARY AND TENURE
Each fellowship award carries with it a $4,000 salary for the 10-week period beginning June 4, 2018 through August 10, 2018. This support is taxable and is the mechanism used by the university to pay QP-SURF students for their training. If a fellow requires housing, the costs will be covered by the program; however, fellows are responsible for paying for their own travel expenses and will not be reimbursed by the QP-SURF Program. Complete details about the QP-SURF program can be found at www.utsouthwestern.edu/QP-SURF.

HOW TO APPLY
The QP-SURF application is available on-line at www.utsouthwestern.edu/QP-SURF. Completed applications should be submitted by February 9, 2018. In addition to submitting an on-line application including uploaded transcripts, your reference letters must be received by February 23, 2018.

FOR ADDITIONAL INFORMATION
Contact Minerva Chihuahua, SURF Administrator, The University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75390-5004, (214) 648-0747. Minerva.chihuahua@utsouthwestern.edu.

(An equal opportunity institution)
QUANTITATIVE AND PHYSICAL SCIENCES
SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS
in CHEMISTRY

OBJECTIVE
To provide an intensive research training experience that leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions at the interface of chemistry and basic biomedical research. Fellows will pursue individual research projects under the direction of a member of the graduate school faculty. Lectures, journal clubs and seminars by faculty members will supplement the research experience.

ELIGIBILITY
Applicants must be enrolled in a physics, computer science, mathematics, or chemistry degree program at the undergraduate level and have completed the sophomore year. Criteria used in selecting fellowship recipients will include college grades, relevant experience, and letters of recommendation from faculty who can assess the applicant's potential for advanced training and success in research that integrates quantitative and biomedical science.

SALARY AND TENURE
Each fellowship award carries with it a $4,000 salary for the 10-week period beginning June 4, 2018 through August 10, 2018. This support is taxable and in the mechanism used by the university to pay QP-SURF students for their training. If a fellow requires housing, the costs will be covered by the program; however, fellows are responsible for paying for their own travel expenses and will not be reimbursed by the QP-SURF Program. Complete details about the QP-SURF program can be found at www.utsouthwestern.edu/QP-SURF-CHEMISTRY.

HOW TO APPLY
The QP-SURF application is available on-line at www.utsouthwestern.edu/QP-SURF-CHEMISTRY. Completed applications should be submitted by February 9, 2018. In addition to submitting an on-line application including uploaded transcripts, your reference letters must be received by February 23, 2018.

FOR ADDITIONAL INFORMATION
Contact Minerva Chihuahua, SURF Administrator, The University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX 75390-9004, (214) 648-0747, minerva.chihuahua@utsouthwestern.edu.

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