

CLAS Academic Advising Center

Academic advising for students pursuing majors and/or minors offered by the College of Liberal Arts and Sciences
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Pre-Professional E-Bulletin

Special Edition!

To view the CLAS Academic Advising Center Pre-Professional Webpage visit
www.gvsu.edu/clasadvising/professional-programs-14.htm

1. Summer Opportunities

This is a SPECIAL EDITION of the Pre-Professional E-Bulletin which is completely dedicated to the vast array of supplementary Summer Opportunities. These are excellent ways to **gain experiences** that will **separate you** from other candidates. **Deadlines** for these programs and opportunities vary, but are rapidly approaching! Take note of the deadlines and plan accordingly.

The purpose of this newsletter is to share information that may be of interest to you. By posting information, it does not mean that we endorse the organizations or services enclosed.

Summer Opportunities

- **Amgen Scholars Program** – Last summer, they welcomed **333 talented undergraduates in science and engineering areas** into research labs at **13 prestigious host universities across the U.S. and Europe**. Funded by the Amgen Foundation through a \$34 million commitment, the Amgen Scholars Program has supported more than **1,800 scientists-in-training** as they conduct **independent, hands-on research for 8 to 10 weeks** under the guidance of leading faculty researchers. Through their participation, Scholars have gained confidence in the lab and grown their networks of top-notch scientists. A gathering of Amgen Scholars at the annual U.S. Symposium and Europe Symposium, two-day networking and educational events hosted by the University of California, Los Angeles and the University of Cambridge, UK, respectively, sets this summer research opportunity apart from others, and has potential to inspire Scholars to pursue a **PhD** in the sciences. This summer, all



13 Amgen Scholars university sites are in full gear. Applications for the **2014 U.S. Program** are **currently available** for eligible candidates. Additional information is available on their website: <http://www.amgenscholars.com/>

- **The Center for Disease Control's Office of Minority Health and Health Equity (OMHHE)** supports **internship opportunities for qualified undergraduate and graduate students** to gain **meaningful experiences in public health settings**. Whether you are looking for a summer internship or a year-long fellowship, the following programs provide valuable exposure to a wide range of public health opportunities. [Learn More & Apply Today!](#) **Deadlines vary**, but most are **January 31st**.
- **COMET – The 12th International Conference on Communication, Medicine & Ethics (COMET) 2014**, will be held at the [University of Lugano](#), Switzerland, from **June 26-28, 2014**. The conference aims to bring together scholars from different disciplinary backgrounds involving **various healthcare specialties** and the human and social sciences. A special emphasis will be on the **dissemination of ongoing research in discourse/communication studies and practical ethics** which engages directly with **healthcare practitioners**. Conference topics include:
 - Argumentation and Rhetoric in Health
 - Client-Professional Encounters (involving doctors, counselors, nurses, pharmacists, dentists, speech and language therapists, psychotherapists, etc.)
 - Communicating Risk and Uncertainty
 - Communication Skills Training
 - Distributed Expertise among Professionals and Clients
 - Ethics and Communication
 - Health and Disability
 - Health and the Lifespan
 - Health Literacy
 - Identities and Experiences of Illness
 - Interpreter Mediated Healthcare Delivery
 - Interprofessional Communication and Hospital Management Systems
 - Media and Health Communication
 - Medical Education
 - Nature of Evidence in Diagnosis and Non-Diagnosis
 - Public Understanding of Health and Illness
 - Quality of Life and Quality of Care
 - Representation of the Body
 - Research Ethics
 - Role of Health Technologies and Medical Informatics
 - (Shared) Decision Making
 - Tailoring Health Messages
 - Telemedicine
 - Values and Responsibilities in Professional Practice



You are invited to submit abstracts and proposals online at www.comet.usi.ch by **January 31, 2014**. Please visit www.comet.usi.ch or send an e-mail to comet@usi.ch for further details regarding submission guidelines, registration, program of events, and more.

- **Des Moines University Health P.A.S.S. Program** – Des Moines University's Health Professions Advanced Summer Scholars Program is a great way for promising college sophomores and juniors to prepare for and enhance their chances of getting into medical school and other health professions programs. Offered **June 9-27, 2014**, the program is high-quality, hands-on and **FREE!** Participants learn what it's like to be a student in a health sciences program. Students learn how to **apply to graduate programs in health sciences**, how to be a **competitive applicant**, and participate in **mock interviews**. **DMU will cover the full costs of participants' meals, materials and accommodations** at Drake West Village. **A travel stipend is also included.** **Enrollment is limited to 12 students.** Preference will be given to **qualified applicants from populations under-represented in medicine and health care, including minority, low-income and/or first-generation college students.** Students must have a minimum cumulative college grade point average of **3.0**. **Applications are due March 1, 2014 and are available at** <https://www.dmu.edu/admission/healthpass/application/>.



- **Gap Medics** - Following a pre-health track? Looking for an internship or a volunteer opportunity abroad? Gap Medics is dedicated to arranging clinical work experience programs that offer pre-health students **genuine insight** into the field of **medicine** and a life-changing look at **global health realities**. Students have the opportunity to observe and learn from healthcare professionals in hospitals in **Tanzania, Thailand and the Czech Republic**, exposing students to real-life situations and providing them with uncensored interaction with the medical world. Click <http://www.gapmedics.com/programs> for the program details for **Pre-Med and Pre-Dental students**. Apply here: <http://www.gapmedics.com/apply-now>.

- **Gateways to the Laboratory Summer Program in New York City for Pre-MD/PhD Students** - This program is ideal for students who wish to pursue the combined **MD-PhD degree** (this program is run by the Weill Cornell/Rockefeller/Sloan-Kettering Tri-Institutional MD-PhD Program). It consists of **10 weeks of independent research** at either Weill Cornell Medical College, Memorial Sloan-Kettering Cancer Center or The Rockefeller University (all in NYC). Students are given the opportunity to **present and participate** in weekly journal clubs, **scrub into surgeries** at New York Presbyterian Hospital, and **give an oral, written and poster presentation** of your research in front of their family (who are flown in for the event), friends and colleagues. Students receive on going **mentorship by a "Big Sib"** (a current MD-PhD student), as well as weekly meetings with the Program's leadership. This program comes with a stipend of \$4,300 (minus the cost of housing). Gateways alumni are accepted and matriculate in the top MD-PhD Programs in the country! To be eligible, students must meet the following criteria:
 - Freshman and sophomores (at time of application) only.
 - Underrepresented minority, disabled and/or disadvantaged backgrounds
 - US Citizens/Permanent Residents
 - Students who wish to pursue the combined MD-PhD degrees after college.

For further information and an on-line application, please visit their website:

<http://weill.cornell.edu/mdphd/summerprogram/>

Application deadline is **February 1, 2014**.

- **GVSU Summer Orientation Assistant** – Applications are **now available!** You can pick up a copy from the front desk of the Admissions Office on the Allendale Campus (3rd floor, Student Services Building) and a pdf link is available on the [Laker Jobs](#) website under the posted position. Applications are due no later than **Wednesday, February 5th**.
- **GVSU Student Summer Scholars** - The Student Summer Scholars Program (S3) **provides funds for a student and faculty mentor to devote twelve weeks to a research and/or creative project during the spring/summer semester.** Generally, S3 Grants provide a student stipend, faculty stipend, and a small budget for supplies. Grants do not exceed \$6,000. **Applications are currently open.** Get more information at this link: <http://www.gvsu.edu/ours/s3/> . **Deadline to complete application is January 24, 2014.**



- **International Service Learning** - ISL strives to **enhance academic learning through service experience while providing quality health care** and other services in **developing communities.** They utilize in-country professionals and offer programs which observe the highest ethical standards and inspire volunteers to a lifestyle of service. There is still space available on some of our global health teams to **Mexico, Belize, Jamaica, The Dominican Republic & Haiti, Nicaragua, Costa Rica, Panama, Peru, and Tanzania!** They have trips that would occur during **Spring Break** as well as over the **Summer Break.** For more information, visit their website: <http://www.islonline.org/>

- **Michigan Health Sciences Career Development Academy** - The Michigan Health Sciences Career Development Academy is a **six-week residential program** sponsored by the **University of Michigan Medical School (UMMS) Office for Health Equity & Inclusion (OHEI)** for **rising juniors, rising seniors and recent graduates attending any accredited college or university.** The academy will focus on **preparing participants for the extensive process of applying and gaining admission into medical school.** The participants will attend workshops on:

- American Medical College Application Service (AMCAS) Preparation
- Medical College Admission Test (MCAT) Preparation
- Professional Development
- Health Disparities
- Biomedical careers

Additionally, each participant will have a **medical student mentor** and be provided formal and informal opportunities to network with faculty and staff. Approximately 15 -20 participants will be a part of the Michigan Health Sciences Career Development Academy. In alignment with the mission of the Office for Health Equity & Inclusion (OHEI), the Michigan Health Sciences Career Development Academy is **committed to building a diverse workforce** by exposing and preparing undergraduate and graduate students for biomedical careers. The academy is designed to academically and professionally develop participants for the medical school application process to pursue a biomedical career. To participate in Michigan Health Sciences Career Development Academy, **applicants must meet the following criteria:**

- Rising junior, rising senior, senior or a recent graduates
- Self-identify as educationally, socially, or economically disadvantaged OR demonstrated commitment to serve underserved populations within the U.S. (see detailed criteria on application)

- Students must have a minimum cumulative GPA of 3.5 and a minimum science GPA of 3.4.
- Completed the following courses:
 - 2 Semesters of Biology with Labs
 - 1 Semester of upper level Biology, if possible
 - 2 Semesters of Inorganic Chemistry with Labs
 - 2 Semesters of Organic Chemistry with Labs
 - 2 Semesters of Physics with labs
 - 1 Semester of Biochemistry
 - 1 Semester of Math (i.e. Possibly Stats, Comp Science, Calculus)
 - 2 Semesters English Composition

In addition, applicants must:

- Be a U.S. citizen or legal resident alien
- Have a valid U.S. social security number
- Attend an accredited college or university

Applicants will be evaluated based on the following:

- Personal and academic accomplishments
- Successful completion of first-year biology and chemistry courses
- College grades
- A demonstrated interest in a career in medicine or biomedical research
- Demonstrated commitment to helping underserved populations
- Quality of academic recommendations
- Students may not take academic classes or be engaged in other activities that would prevent them from attending all training sessions.



Stipends are \$300.00 (before taxes) per week totaling \$1,800 for 6-week period. **Housing is provided. The program runs from Sunday, May 11, 2014 to Saturday, June 21, 2014.**

You must submit your completed application before midnight on February 1, 2014. You are encouraged to apply early. Acceptance to the program is made on a rolling admission basis. A

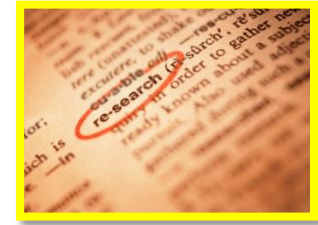
completed application includes:

- Submitted online application
- Three letters of recommendation
 - Two letters of recommendation from faculty members teaching science courses
 - One letter of recommendation from academic advisor or employer
- Official or unofficial transcript from your institution(s)

For more information, visit <http://med.umich.edu/medschool/diversity/cda.htm> . **If you have any questions or concerns, please contact** oheiprehealthprograms@umich.edu.

- **MSU College of Osteopathic Medicine Undergraduate Education & Research Program (SUPER)**
- The SUPER program offers summer education and research training to outstanding

undergraduate students, who are planning to pursue careers in the **biomedical sciences**. Students interested in the combined **DO-PhD training** for a career as a **physician-scientist** are offered an opportunity to conduct research and to be exposed to the excitement of an academic medical environment. The SUPER program is a **10 week program that begins in June every year**. Up to four awards will be given to qualified undergraduate applicants each year. **The program includes both clinical and laboratory experiences**. Each SUPER undergraduate participant will receive \$2,500 for the 10-week, **full-time research experience** and accommodations in University Housing can be provided for any student outside of the greater Lansing or East Lansing area. **Applications are invited from undergraduate students who are currently in their sophomore or junior year, have a GPA of 3.5 or higher, and have a minimum of one full semester of research experience**. Students who have a **GPA of less than 3.5 but have extensive research experience are also encouraged to apply**. Applicants should be involved in research and be interested in graduate and medical education in biomedical sciences leading to a DO-PhD. Eligible students must be US citizens or permanent residents who anticipate graduating with a bachelor's degree in the biological or physical sciences in the academic year following the summer of planned participation. Graduating seniors are not eligible. Selection of students is based on the completed application, and a personal statement of 1-2 pages which describes academic interests, career goals, and research experiences. Students must state specific scientific interests and any particular research areas or techniques they wish to explore in order to be matched with the faculty. Also required are two letters of recommendation (one from faculty and one from an advisor) and a transcript from the student's undergraduate institution(s). Minority students are encouraged to apply. **Applications are currently open. Deadline for receipt of all materials in their office is March 1, 2014**. Decisions will be made and students notified by April 1, 2014. Check out their website at <http://www.com.msu.edu/DO-PhD-Program/SUPER.htm> . Use this [application](#) to apply.



- **National Institutes of Health Summer Internship Program in Biomedical Research** - Summer programs at the National Institutes of Health (NIH) provide an opportunity to **spend a summer working at the NIH side-by-side with some of the leading scientists in the world, in an environment devoted exclusively to biomedical research**. The NIH consists of the 240-bed Mark O. Hatfield Clinical Research Center and more than 1200 laboratories/research projects located on the main campus in Bethesda, MD and the surrounding area as well as in Baltimore and Frederick, MD; Research Triangle Park, NC; Hamilton, MT; Framingham, MA; and Detroit, MI. NOTE: the number of positions in Hamilton, Framingham, and Detroit is limited. **Internships cover a minimum of eight weeks, with students generally arriving at the NIH in May or June**. The NIH Institutes and the Office of Intramural Training & Education sponsor a wide range of summer activities including **lectures featuring distinguished NIH investigators, career/professional development workshops, and Summer Poster Day**. The Summer Internship Program is for students who are at **least sixteen years of age or older** at the time they begin the program. To be eligible, **candidates must be U.S. citizens or permanent residents**.



Prospective candidates must apply online. **The application is available from mid-November to March 1.** It requires submission of

- a curriculum vitae or resume,
- a list of coursework and grades (please note: no transcripts need to be sent at this time),
- a cover letter describing the applicant's research interests and career goals, and the names and contact information for two references.

Candidates may also specify the scientific methodologies or disease/organ systems that interest them. For more information about the program, including ways to increase your chance of being selected, check out their website: <https://www.training.nih.gov/programs/sip>.

- **The Nebraska Summer Research Program** is a consortium of **NSF funded Research Experiences for Undergraduates (REU)** and other summer research opportunities programs (SROP). One unique feature of the Nebraska Summer Research Program is the **partnership between the REU and SROP programs and the Office of Graduate Studies**. Students benefit in having a **community of scholars** in which to learn and to share research with. This intensive summer research experience provides mentoring and research experiences while allowing **scholars to preview graduate school life**. Students with a strong interest in graduate programs are particularly encouraged to [apply](#), as are those from **populations traditionally underrepresented in graduate education**. The [priority](#) application deadline is **February 1, 2014**. Complete applications are due by **5 p.m. February 17, 2014**. The program dates are:

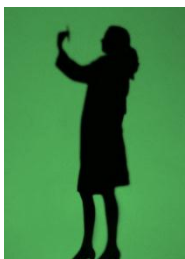
- 10-week program: June 2 - August 6
- 8-week program: June 2 - July 25

For more information, please visit <http://www.unl.edu/summerprogram/>

- **The Ohio State University College of Medicine “SUCCESS” Program** – This program, which stands for Summer Undergraduate Course Creating Excellence in Scientific Study, runs from **May 31 – August 2, 2014**. This program is for **students interested in obtaining a MD/PhD upon graduation**. The SUCCESS Program will enable students to participate in a **9-week, fully-funded, enriching research experience hosted by the Medical Scientist Training Program**. While taking part in this program, students will take valuable professional development courses and learn from engaged mentors; all while working in **state-of-the-art research facilities**. The SUCCESS program seeks to identify outstanding students interested in the biomedical sciences with the goal of pursuing graduate education (MD/PhD or PhD). The program seeks to **enhance and foster diversity** in graduate study in the biomedical and biological sciences as reflected in culture, class, race, ethnicity, background, work, and life experiences. **The program especially encourages applications from African Americans, Hispanic/Latino Americans, Native Americans, Pacific Islanders, and others whose backgrounds and experiences would bring diversity to the field**. In order to be considered for SUCCESS, students must be graduating in the year of 2015 or 2016, enrolled in a U.S. 4-year undergraduate institution, and be an American citizen or permanent resident. Applications for the SUCCESS Program are available online now through January 31st! Check out their website at www.go.osu.edu/success.



- **Perrigo Undergraduate Summer Fellowship** - Each year the Life Sciences Institute offers the Perrigo Undergraduate Summer Fellowship to highly qualified undergraduate students currently enrolled at any university or college in Michigan. **Most applicants are students in chemistry, biology, biochemistry, pharmacy, engineering, or related fields.** Each student is assigned to a laboratory in the Life Sciences Institute for hands-on experience with world-class researchers. Student fellows participate in **side-by-side work at the research bench with faculty members**



and scientists of the LSI and receive a \$3,000 stipend for the ten week program, plus housing support. The Perrigo Fellowship is open to **any student attending a college or university in Michigan.** Applicants should have **excellent academic records** and preferably have some experience working in a lab. **Students in any stage of their undergraduate career may apply, though typically students of Junior/Senior status are given higher priority.** If accepted as a Perrigo Fellow, you will be expected to work full time in your assigned lab. Hours may vary and will be determined by you and your host faculty member, but expect to work

approximately 40 hours a week. Fellows should also be prepared to work the entire duration of the program. Special allowances may be made for students whose school semester does not end before the program begins. Fellows participate in a summer-end colloquium open to the campus community to present a short talk on their research project. They are not currently accepting applicants. Deadline and application information for 2014 will be announced on the LSI website. If you have any questions or need any additional information, please contact Alicia Levesque at 734-764-4502 or aliciall@umich.edu. Check out their website at <http://www.lsi.umich.edu/perrigo-undergraduate-fellowship>.

- **RISE (Research Internships in Science and Engineering)** - RISE is a summer internship program for **undergraduate students** from the United States, Canada and the UK **in the fields of biology, chemistry, physics, earth sciences and engineering.** RISE offers unique opportunities for Bachelor students to **work with research groups at universities and top research institutions across Germany for a period of 2 to 3 months during the summer.** RISE interns are matched with doctoral students whom they assist and who serve as their mentors. **The working language will be English.** All scholarship holders receive stipends from the DAAD to help cover living expenses, while partner universities & research institutes provide housing assistance. **The database for students opens from December 1, 2013 to January 31, 2014.** Check out their website for more information: <https://www.daad.de/rise/en/>
- **The Summer in Biomedical Sciences (SIBS) Undergraduate Research Program 2014.** This summer, the University of Alabama at Birmingham is sponsoring an **eight week program** in which selected undergraduate students will conduct **laboratory research** under the guidance of **individual UAB faculty members.** Student recipients of this competitive fellowship receive a stipend of \$2000 for the summer. Students will receive free on-campus housing but will be responsible for their own meals, travel to and from Birmingham, and other expenses. The program dates will be **June 2– July 25, 2014.** **The application deadline is February 15, 2014.** The SIBS program uses an online application, available at <http://www.uab.edu/medicine/sibs/application>. Applicants to SIBS are expected to have **completed at least their sophomore year of undergraduate coursework.** They anticipate that

successful candidates will typically demonstrate grade point averages of **3.0 (“B”) or higher**, especially in science, math, and related areas. Their goal in offering this fellowship is to give talented students the **opportunity to experience the challenges and rewards of intensive, hypothesis-drive laboratory research**. This experience should help students make well informed decisions about future career plans. **Previous research experience is not required**. They especially welcome applications from students who are interested in research as a potential career, including students interested in **PhD and MD/PhD programs**. You can learn more about SIBS at <http://www.uab.edu/sibs> or by contacting rlorenz@uab.edu.

- **The Summer Medical and Dental Education Program (SMDEP)** - This programs 2014 online application process is open! **The National Program Office (NPO)** looks forward to processing applications from eager **freshman and sophomore college students** who want to become **physicians or dentists**. Students who meet the following eligibility requirements may be accepted at one of their 12 medical and dental institutions:
 - Be currently enrolled as a freshman or sophomore in college;
 - Have a minimum overall GPA of 2.5;
 - Be a U.S. citizen or hold a permanent resident visa; and
 - Not have previously participated in SMDEP.

SMDEP is implemented at **12 program sites** (80 students per site) across the **nation**. Each program site provides scholars with **academic enrichment in the basic sciences and math, clinical experiences, career development activities, learning and study skills seminars, and a financial planning workshop**. **This free six-week residential program** is hosted by the following participating institutions:

- Case Western Reserve University of Medicine and Dental Medicine
- Columbia University College of Physicians and Surgeons and College of Dental Medicine
- Duke University School of Medicine
- Howard University Colleges of Art and Sciences, Dentistry, and Medicine
- David Geffen School of Medicine at UCLA and UCLA School of Dentistry
- Rutgers New Jersey Medical School and Rutgers School of Dental Medicine
- The University of Texas School of Dentistry and Medical School at Houston
- University of Louisville Schools of Medicine and Dentistry
- University of Nebraska Medical Center, Colleges of Medicine and Dentistry
- University of Virginia School of Medicine
- University of Washington Schools of Medicine and Dentistry
- Yale University School of Medicine



Applications are currently open. Please visit their website for application guidelines and for online registration information at www.smdep.org or contact the National Program Office at 1-866-587-6337 or smdep@aamc.org.

- **Summer Undergraduate Research Fellowships in Molecular & Integrative Physiology** - The Department of Molecular & Integrative Physiology at the **University of Michigan** offers summer

undergraduate research fellowships to support undergraduate students that are interested in **research in physiology and/or biomedical sciences**. Any student who is currently enrolled at any degree granting University or College is invited to apply, with **preference given to those students interested in a career in research**. Each student will be matched, based on their interests, to a laboratory led by a faculty member of the Department of Molecular & Integrative Physiology. This collection of laboratories is involved in **nationally recognized research, in topics such as in topics such as hormones and signal transduction, ageing, obesity and diabetes, reproduction and circadian rhythms including sleep, gastrointestinal physiology including digestive diseases, and many aspects of cardiovascular disease**. The stipend for 2014 will be \$4200 for twelve weeks of full-time work from **May 27 to August 15**. The start and end date of the fellowship may be change to accommodate overlap with academic year at home institution, if necessary. The laboratory hands-on research is completed with a weekly seminar series with presentations on responsible conduct of research, career advice and coaching, and how loss of physiological regulation leads to diseases. There will be a **research forum** at the end of the summer in which fellows will **present their work**, as well as opportunities to attend research seminars throughout the summer. Further details and application materials are available from the fellowship website: <http://goo.gl/PDCOlK> **The deadline for applications is February 15, 2014.**

- **Summer Undergraduate Research Experience (SURE)** - SURE participants participate in **full time research for a summer** (9.5 weeks) program, starting **May 29 ending August 1**, that provides **laboratory, fieldwork and research skills** in the broad area of **biofuels research**. Students are paid a **stipend of \$5000** for the full summer and **expected to work full time**. **Housing and tuition** (if necessary, depending on location) are **covered**. All students will be participating in the poster session **on August 1 in Pullman, WA**. More information and an application are available at the website: <http://nararenewables.org/ed>

- **UC Davis Department of Surgery Pre-Medical Surgical Internship & Mentorship Program** - This program is open to **ALL pre-medical students regardless of year, academic standing, or academic institution**. If you are interested in a career in medicine you are eligible to apply! The site for the program is the **UC Davis Medical Center in Sacramento, CA**. This 650-bed hospital is the major teaching affiliate for the UC Davis School of Medicine. The hospital **serves an area of tremendous diversity in both cultural and socioeconomic background**. It is a **Level 1 Trauma Center**, and home to the **only burn center, children's hospital, and transplant center in Northern California**. Furthermore, it is the only institution of its kind in Northern California. It is **one of the five busiest Trauma Centers in the country** and has been featured in multiple television programs. Their focus of

service to those most in need underpins the teaching activities in this setting. The Department of Surgery consists of the following surgical subspecialties:

- Trauma & Emergency Surgery
- Cardiothoracic Surgery
- Gastrointestinal Surgery
- Bariatric Surgery
- Neurosurgery
- General Surgery

- Burn Surgery
- Pediatric Surgery
- Otolaryngology Surgery
- Plastic Surgery
- Surgical Oncology
- Urological Surgery
- Transplant Surgery
- Vascular Surgery



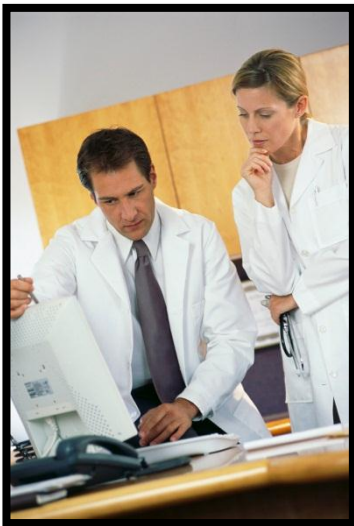
This is not a volunteering or shadowing program. This is a mentorship where you will be **interacting with multiple physicians in the Department of Surgery**. You will be working directly with physicians every step of the way, from seeing patients in the **intensive care unit**, to **pre-operative, post-operative, bedside, trauma bay, operating rooms, clinics, conferences, journal clubs and rounds**. You will experience the duties physicians perform on a daily basis. You will be part of the team and regarded as such. This program is under the supervision and guidelines set forth by the Chairman of Surgery at the UC Davis Health System.

This is an extraordinarily unique opportunity. Maturity, attentiveness, and being able to follow directions are imperative. This is a fast-paced environment where life and death are on the line every second of the day. Professionalism and maturity are expected. The surgeons voluntarily participating in this program are enthusiastic about having pre-med interns since they were once pre-medical students. Their goal is to give you the best learning experience possible. So please be respectful of them at all times. Additionally, they ask that you remain flexible and follow their instructions. **Summer 2014 Application Deadline: March 31, 2014 at 11:59pm.** For More Information & Application: www.premedsurgery.org.

- **The University of Michigan Samuel & Jean Frankel Cardiovascular Center** is pleased to announce their **2014 Summer Undergraduate Research Fellowship Program** is accepting applications. This fellowship program will provide up to **sixteen full-time summer research opportunities** at the University of Michigan for talented undergraduate **students interested in cardiovascular research**. This is a highly competitive program drawing students from across the country. Their fellowship website, <http://sitemaker.umich.edu/cvcsummerfellowship/> has more information on the fellowship program and the application process. Questions can be sent to cvcsummerfellowship@gmail.com. **The application deadline is January 31, 2014.**
- **University of Pittsburgh Undergraduate Summer Research Opportunities** - If you are a **motivated undergraduate student** eager to participate in **innovative research** happening within one of the **most active biomedical research institutions** in the nation, then explore the summer research programs available at the University of Pittsburgh Schools of the Health Sciences. They are dedicated to showing you “how science works” by providing a list of opportunities available at the Schools of the Health Sciences that will allow you to gain **invaluable, hands-on experience in biomedical research**. Work **side-by-side with extremely knowledgeable scientists and clinicians** in their **state-of-the-art labs**, and **explore possible career opportunities**. Please [review](#) the list of Summer Research Program opportunities available through the University of Pittsburgh, Health Sciences. If you need additional assistance, contact the program directly or visit their website. **Applications for each program differ, as does the possible financial cost.** Staff members in the Office of Science Education and Outreach (OSEO), Health Sciences, are available to address your questions via email communication. They will do their best to address your questions and provide you with appropriate information and guidance to find the best fit

for your interests and experience to date. Appointments can be made to meet one-on-one with staff in OSEO for an in-depth discussion of your goals, interests and review of opportunities at the University of Pittsburgh. Please contact OSEO at <http://www.howscienceworks.pitt.edu/stay-connected>. The Office of Science Education Outreach, Health Sciences at the University of Pittsburgh offers an electronic newsletter, featuring interesting information on science education activities and opportunities. Please sign-up for the free "How Science Works" electronic newsletter by visiting the above website.

- **Vanderbilt Summer Science Academy** - The Vanderbilt Summer Science Academy (VSSA) offers **biomedical research opportunities** to undergraduates who want to pursue a career in the biomedical sciences. Although each participating program operates independently, the academy unites students and provides them with opportunities for **academic and social interaction**. There are **two major tracks** within the VSSA; the **Basic Science Programs** for undergraduates interested in careers in research, and the **Undergraduate Clinical Research Internship Program**



for undergraduates who wish to pursue a career in medicine. Participation in any one of the **Summer Science Academy** programs is a valuable learning experience that enhances a student's skills and makes him or her more competitive for acceptance to frontline graduate programs. Each student has an **opportunity to present their research at the Summer Symposium** held on the last day of the nine-week program. The Summer Symposium is the culmination of their summer experience, the primary feature of which is an independent research project in a laboratory at Vanderbilt University. This is an excellent opportunity for undergraduates to experience research at a major academic research center and to understand what graduate life would be like were they to decide on a research career. It is also an excellent opportunity for students to **network with a very diverse group of students from other institutions from across the country**. Basic Science Participating Programs (Summer 2014)

- **The Molecular and Cellular Biology Summer Program** (IGP) provides undergraduate students who may be interested in the Vanderbilt Interdisciplinary Graduate Program (IGP), our Ph.D. track program, hands-on research experience in the laboratory of an IGP faculty preceptor.
- **The BP-ENDURE Program** hosted by a collaboration between Hunter College and the Vanderbilt Brain Institute connects research-intensive institutions to institutions that have substantial enrollments of neuroscience majors from traditionally underrepresented groups. The program supports a range of activities to increase undergraduate student's interest in the neurosciences, including research experiences, curriculum development, seminars and journal clubs.
- **The Integrative Cancer Biology Program** has two different summer programs for undergraduates designed to train students specifically interested in cancer research how to address research questions in this field.

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- **The Leadership Alliance Summer Research Early Identification Program (SR-IEP)** offers undergraduates, interested in pursuing a Ph.D. or M.D./Ph.D., the opportunity to work for nine weeks under the guidance of a faculty or research mentor at Vanderbilt University, a participating Alliance institution.
 - **The Summer Enrichment Research Program in Education and Neuroscience Training** by the Middle Tennessee Chapter for the Society of Neuroscience (MTNCsfn) is designed to introduce students to neuroscience research outreach training through its Summer Enrichment Research Program in Education and Neuroscience Training (SERPENT).
 - **The Vanderbilt Summer Undergraduate Research Internship in Biomedical Informatics (SURI-BMI)** provides undergraduate students with a high quality, hands-on research experience with Biomedical Informatics faculty mentors; thereby encouraging students to consider pursuing PhDs and research careers in the field.
 - The objective of **the Summer Undergraduate Research Program in Pharmacology** is to introduce students to biomedical research and to help them gain an understanding of recent advances in pharmacological research through interactions with faculty, postdocs and, graduate students.
 - **The Vanderbilt Benign Urologic Disease Center Summer Program** provides undergraduate students who are interested in benign urologic disease, the opportunity for a research experience in one of the laboratories associated with the Vanderbilt Benign Urologic Disease Center.
 - **The Vanderbilt Minority Summer Research Program** offers undergraduates, who are members of federally recognized groups as underrepresented in the sciences, a summer research internship in the laboratory of an outstanding scientist at Vanderbilt University.
 - **The Vanderbilt Summer Diabetes Research Program** provides undergraduate students who are interested in diabetes the opportunity for a research experience in one of the many laboratories associated with the Vanderbilt Diabetes Center.
 - **The Vascular Biology-Short Term Training Program for Minority Students** offers undergraduate students an NIH funded training program in vascular biology. The STTP for Minority Students offers a laboratory experience designed to teach contemporary research techniques and enhance essential laboratory skills. Combining research activities with coursework, students gain a better grasp of research concepts and improve their critical thinking with regards to the literature and their own studies.



The Undergraduate Clinical Research Internship Program is a separate track within the VSSA that gives undergraduates the opportunity to explore the busy life of an **academic medical center**. It is designed for individuals who may wish to pursue a career as a **physician in a teaching hospital, in a clinic, or as a physician scientist**. Participants will actively engage with a physician's research team over a nine-week period. Participants are also exposed to the clinical environment, spending one half-day per week shadowing resident physicians in the hospital.

The deadline to apply is February 1, 2014. Please go to <https://medschool.vanderbilt.edu/vssa/> for additional information.

"Know the true value of time; snatch, seize, and enjoy every moment of it. No idleness, no laziness, no procrastination: never put off till tomorrow what you can do today."

Lord Chesterfield

