

Sample Resume and Cover Letter

Biology Student



LUCAREER
GET YOUR **START.**


 **Action Verbs** that could be included on your resume and cover letter

Barefield Lab Internship


The Barefield Lab is opening in May of 2020 and is looking to hire an undergraduate student for a summer internship. **We are excited to get the lab setup and running, and about getting to share this unique experience with some students who are enthusiastic about biomedical research.** The internship period will run from May 26th - August 21st, with variable start and end dates depending on undergraduate curriculum schedules.

Looking for students interested in working for a new company, rather than an established one

The ideal candidate is an undergraduate biology or biochemistry major who is completing their Sophomore or Junior year in the spring of 2020.

 The Barefield Lab is a new cardiovascular basic science laboratory at Loyola University Chicago's Stritch School of Medicine. **We research the causes of human genetic heart disease using molecular biology and biochemistry tools with cell and animal models of disease, with the goal of improving human health.**

The applicant should be interested in this specific cause and be able to talk about the passion

 This summer internship will provide an opportunity to help establish a new research program studying cardiovascular biology. The student will receive training from Dr. David Barefield in aspects of molecular and cellular biology, **perform experiments, analyze data,** and **present** their findings at the end of the summer. **The student will have the chance to interact with other undergraduate student researchers, Loyola graduate students, postdoctoral fellows, and the other faculty members in the Cell and Molecular Physiology Department.**

The applicant should be able to work with other researchers as well as by themselves

Applicants should provide a cover letter stating the reason for your interest, unofficial transcript of undergraduate course work, and a letter **of recommendation from an undergraduate faculty member.** Proof of health insurance coverage will be required upon acceptance. The application deadline is March 31st, and notification of selection will be no later than April 15th.

The faculty member should teach/work in a relevant science department, if possible

Please have your letter of recommendation submitted directly to Dr. Barefield: david.barefield@northwestern.edu

ALLOWED MAJORS: Cell Biology, Biochemistry, Molecular Biology, Physiological Science, Biotechnology, Microbiology, and Biology majors

It is still worth reaching out if the applicant is studying something very similar to these majors

The Barefield Lab is headed by David Barefield, PhD at Loyola University Chicago's Department of Cell and Molecular Physiology, located in the state of the art Center for Translational Research and Education on Loyola's medical campus in Maywood, Illinois.

Cover Letter Example

876 Hanover Dale
Winnetka, IL 60661

March 20th, 2020
Barefield Lab
2160 S 1st Avenue
Maywood, IL 60153

Dear Dr. Barefield,

I am a junior at Loyola University Chicago on the pre-health track majoring in biology with a minor in chemistry. I'm writing to apply for the Undergraduate Summer Intern Position being offered at Barefield Laboratory, and I'm excited about the opportunity to work for a lab that focuses on biomedical research. **I believe my experience in both biology and chemistry research at Loyola, as well as my passion for medicine make me a strong candidate for this position.**



Shows employer that applicant read through the application and understands the main qualifications

While working as a Research Assistant for Dr. Thomas Flick, **I gained experience in cellular biology research. I implemented genetic, cellular, and developmental approaches while dissecting the mechanisms of cell proliferation, differentiation, and death.** I was trained by Dr. Flick and worked alongside his PhD graduate assistant, using sophisticated lab equipment and taking accurate measurements. In addition, I **maintained the lab daily** by setting up specimens and cleaning lab equipment.



The applicant explains the relevant experience they have in a lab setting

As a Laboratory Assistant in the Physical Chemistry Lab, I supported the PI by preparing **15 different chemical solutions** for multiple lab sections per week. I was trained to use advanced lab equipment and was entrusted with daily lab set-up and breakdown. For two semesters, I instructed over **200 Loyola freshmen** on laboratory procedures, and helped teach the basics of chemical properties.



Emphasizes key figures that demonstrate the applicant's ability to work in a lab

Along with my research experience, my goal is to attend medical school and **eventually become a cardiologist.** I would love the opportunity to join the Barefield Laboratory as an intern this summer! I can be contacted at msuresh5@gmail.com or 847-765-4321. Thank you for your time and consideration.

Sincerely,

(Handwritten Signature)

Mohinder Suresh



Applicant closes letter reiterating the main point and provides contact info

MOHINDER SURESH


876 Hanover Dale
Winnetka, IL 60661
msuresh5@gmail.com
(847) 765-4321

EDUCATION

Loyola University Chicago


Bachelor of Science in Biology, Minor in Chemistry, Expected May 2021

Relevant Coursework: Molecular Genetics, Radiation Biology, Morphogenesis, Introductory Immunology, Virology, Mammalian Endocrinology

 Strong academic knowledge with relevant coursework to stand out

LABORATORY SKILLS AND EQUIPMENT

Light Microscope; Electron Microscopy; Zone Electrophoresis; Ultra-Centrifugation; Chromatography; Paper, Gas, Column, Absorption, Thin Layer and HPLC; Spectroscopy: Infrared and NMR


 Concrete, industry-specific skills that the employer will look for in applicants

EXPERIENCE

University of Chicago, Microbiology Laboratory under Dr. Thomas Flick, Chicago, IL

Research Assistant, February 2018 - Present

- Dissect the mechanism of developmental control of cell proliferation, differentiation, and cell death in various ongoing projects
- Research and implement Drosophila genetic, cellular and developmental approaches
- Analyze data and present findings to Dr. Flick and grad assistants during monthly meetings

 Highlights directly relevant research experience

Loyola University Chicago, Physical Chemistry Laboratory, Chicago, IL


Laboratory Assistant, August 2017 - May 2018

- Prepared up to 15 different chemical solutions for two laboratory sections each week
- Instructed approximately 240 students on standard laboratory procedures and proper use and care of laboratory equipment
- Presented on topics in chemical properties and phenomena to students in lab

Loyola University Chicago Writing Center, Chicago, IL

Academic Tutor, June 2016 - January 2017

- Taught 15 students on an as-needed basis for six semesters
- Provided students with assistance in courses in chemistry, biology, microbiology, and cell biology
- Helped students increase grades by at least a whole letter; increased each chemistry tutee grades by over two letter grades

 Demonstrates transferable skills/ability to work with others and communicate

LEADERSHIP & ACTIVITIES

Loyola University Intramural Soccer, Chicago, IL


Team Captain, 2018 - Present

- Organize weekly team practices and communicate game times and schedules with all players
- Liaise with league administrators and other team captains regarding

Alpha Phi Omega Service Fraternity, Chicago, IL

Treasurer, Member, 2017 - Present

- Manage operating budget of \$5,000, tracking expenses keeping accurate records
- Organize service events with over 10 local non-profits, recruiting members and planning projects

 Demonstrates transferable skills/ability to organize and work on large projects