

**2021 SUMMER INTERNSHIP PROGRAM
VITALANT RESEARCH INSTITUTE**

Vitalant Research Institute (<https://research.vitalant.org/>) in San Francisco, an affiliate of the University of California, San Francisco, has openings for full-time 8-week paid internship positions as part of a larger internship program, **June 21 through August 13, 2021**. Selected students are eligible for a \$4,000 stipend for the successful completion of the 8-week program. Students will participate in seminars, presentations, and institutional events. The Summer Internship Program at VRI provides undergraduate and master's students the opportunity to participate in research in the areas of transfusion medicine and cellular therapy through pairing with an investigator/mentor in one of the following research areas:

1. A summer internship is available in the Pillai lab to investigate the molecular biology and pathogenesis of HIV/AIDS from an evolutionary perspective. Ongoing projects in our lab include studies of host and viral factors involved in the maintenance of HIV latency, which is the principal obstacle to a cure for HIV infection. Projects will involve learning cell culture, flow cytometry, next generation sequencing, and gene editing techniques to study the virus-host interface. <https://research.vitalant.org/Investigators/Individual-Investigators/SATISH-K-PILLAI,-PHD.aspx>
2. A summer internship is available in the Norris immunology laboratory. Ongoing research projects focus on the immune control of HIV, extracellular vesicle signaling, and tumor immunology. The summer project will focus on optimizing methods to detect immune perturbation after antibody blockade of immune pathways. <https://research.vitalant.org/Investigators/Individual-Investigators/Philip-J-Norris,-MD.aspx>
3. A summer internship is available in the laboratory of Dr. Rachael Jackman. Our lab studies the immunology of blood transfusion and uses animal models to evaluate immune responses to blood transfusion such as alloimmunization and rejection. The intern will have the opportunity to learn basic lab techniques, flow cytometry, immunology, and models of transfusion. <https://research.vitalant.org/Investigators/Individual-Investigators/Rachael-P-Jackman,-PHD.aspx>
4. A summer internship is available in cell biology laboratory of Dr. Marcus Muench. Work will use cells and progenitors isolated from human tissues. The project will involve testing the differentiation of these cells in various in vitro and in vivo systems. The internship will offer the opportunity to learn basic laboratory skills in cell culture, flow cytometry and work with xenogeneic transplant models. Basic concepts in stem cell biology, hematology and developmental biology will be taught. Applicants must be willing to work with human pathology specimens, transplant models and be willing to handle potentially infectious agents. <https://research.vitalant.org/Cores/Cell.aspx>
5. A summer internship is available in the Immunology Core directed by Dr. Clara Di Germanio. We use multiple high-throughput immune platforms and assays (Vitros, Luminex, MSD, ELISA, etc) to measure markers of infection and immune response ((HIV and SARS-CoV-2) in a GCLP environment. The internship will include core activities from samples receiving, preparation and testing to documentation and Quality Assurance management. <https://research.vitalant.org/Cores/Imm.aspx>

Requirements:

Candidates are required to be enrolled in an educational institution (must be matriculated in semester before or after summer 2021, work in a team environment, set priorities, and devote full time to this training experience. Candidates must also have effective oral and written communication skills and be self-motivated with good organizational skills.

Application Deadline: end of day May 21, 2021

Please complete the application on the VRI website <https://research.vitalant.org/Careers> and submit by fax or email to Assenzio, Human Resources, HR Manager.

Fax: (415)775-3859, F. Assenzio
E-Mail: Vitalant Research Institute

Accepted applicants will be notified by June 4, 2021