For High School, College, Post-Baccalaureate and Medical Students Compiled by the Association of Pathology Chairs (APC) – October 2018



www.apcprods.org/opportunities

Program Name	Medical School	Location	Deadline
FOR HIGH SCHOOL STUDENTS			
RISE Summer Internship Program https://oso.stanford.edu/programs/39-rise-summer- internship-program	Stanford University (Bay Area students only)	Stanford, CA	02/11/2019
Explorations In Pathology	University of Rochester	Rochester, NY	02/15/2019
Research Experience in Autism for College and High School Students (REACH)	SUNY Downstate Medical Center	Brooklyn, NY	03/01/2019
Yale Path To A Cure Summer Research Program For High School Students https://science.yalecollege.yale.edu/	Yale University	New Haven, CT	04/02/2019
Career Exploration Programs www.uthscsa.edu/outreach	University of Texas Health San Antonio	San Antonio, TX	Varies
DSHREP, ROADS AND AIM http://www.mcw.edu/Summer-Enrichment-Programs.htm	Medical College of Wisconsin	Milwaukee, WI	Varies
FOR COLLEGE STUDENTS			
Shadowing www.pathology.ucsf.edu	University of California, San Francisco	San Francisco, CA	12/01/2018
Pathology Observation	University of Rochester	Rochester, NY	01/01/2019
Summer Research Internship Program	University of Virginia	Charlottesville, VA	02/01/2019
Summer Undergraduate Research Fellowship	Mayo Clinic	Rochester, MN	02/01/2019
Undergraduate Pipeline Network (UPN) Summer Research Experience https://hsc.unm.edu/research/brep/undergraduate/upn/in dex.html	University of New Mexico	Albuquerque, NM	02/01/2019
GSAS-Leadership Alliance Summer Research Program https://gsas.columbia.edu/our-intellectual- community/diversity/summer-research-program	Columbia University	New York City, NY and other sites	02/01/2019
Mentored Student Research Program https://cme.dmu.edu/MSRP2018	Des Moines University	Des Moines, IA	02/10/2019
Edmondson Summer Research Internship https://www.ucdmc.ucdavis.edu/pathology/education/ed mondson_research_fellowship/index.html	University of California, Davis Health	Sacramento, CA	02/15/2019
DSHREP, ROADS AND AIM http://www.mcw.edu/Summer-Enrichment-Programs.htm	Medical College of Wisconsin	Milwaukee, WI	Varies
FOR POST-BACCALAUREATES			
Master of Science in Modern Human Anatomy http://www.ucdenver.edu/academics/colleges/medicalsc hool/departments/CellDevelopmentalBiology/MSMHA/Pag es/default.aspx	University of Colorado	Aurora, CO	03/15/2019
Clinical Anatomy Certificate Program http://www.evms.edu/education/masters_programs/conte mporary_human_anatomy/certificate_in_anatomy/	Eastern Virginia Medical School	Norfolk, VA	04/15/2019
Graduate Certificate in Molecular and Biomedical Sciences https://medicine.fiu.edu/academics/degrees-and- programs/certificate-in-molecular-and-biomedical- sciences/index.html	Florida International University	Miami, FL	06/15/2019

For High School, College, Post-Baccalaureate and Medical Students Compiled by the Association of Pathology Chairs (APC) – October 2018



www.apcprods.org/opportunItles

FOR HIGH SCHOOL STUDENTS

RISE SUMMER INTERNSHIP PROGRAM (Bay Area students only) Stanford University, Stanford, CA https://oso.stanford.edu/programs/39-rise-summer-internship-program

Overview: Great research program for high school students in the Bay Area. Pathology: University wide program that includes Pathology. Paid? Yes. Tuition/Fees? No. Recognition: Certificate. Criteria: See website. Contact: Maiken Bruhis, Administrator: mbruhis@stanford.edu. Application Deadline: 02/15/2019

EXPLORATIONS IN PATHOLOGY (3 weeks in July) University of Rochester

Pathology & Laboratory Medicine, Rochester, NY https://enrollment.rochester.edu/adm/precollege/

Overview: What is Pathology? This program offers a unique experience exploring the multifaceted discipline of pathology, a cornerstone of modern medicine. Students will get firsthand experience with laboratory processes, organ dissection sessions, independent coursework, and mentoring by a department physician. Pathology: Pathology/Lab Medicine experience only. Criteria: This program is a 3week residential-required intensive program. Applications and requirements are available through the pre-college program website. Recognition: Certificate of Completion Paid? No Tuition/Fees? Yes Contact: Office of Pre-College Programs: precollege@rochester.edu | (585) 275-3221 Application Deadline: 02/15/2019

RESEARCH EXPERIENCE IN AUTISM FOR COLLEGE AND HIGH SCHOOL STUDENTS (REACH) (Summer)

SUNY Downstate Medical Center, Dept. of Pathology, Brooklyn, NY Overview: REACH (Research Experience in Autism for College and High School students) is an intensive summer pipeline program for Brooklyn high school and undergraduate college students which uses personalized education and immersive research to study the brain and autism spectrum disorders. Students work with pathologists, neuroscientists, and pediatricians during the program. Goals of the REACH Program include: • Create a medical school and graduate school pipeline program that prepares underrepresented minority student from Brooklyn for careers in neuroscience research, medicine, and health-related professions. • Address racial disparities in ASD care and to have the students present what they have learned to their families, thereby increasing knowledge of ASD in the community. Provide training in laboratory skills, hypothesis generation, planning experiments, analyzing data, and communication of scientific discovery, so that students have the research skills necessary to succeed in scholarly activities in college, medical, or graduate school. · Provide guidance and mentorship to students about careers in Medicine, Health-Related Professions, and Neuroscience, and to outline the steps needed to successfully apply to medical and graduate school. Pathology: Pathology as one component of a more integrated and broader experience Criteria: The program is designed for high school and undergraduate students who have historically been underrepresented in the biomedical professions. The program is open to students who have completed their junior year of high school to junior year of college. Recent college graduates who have been part of the Arthur Ashe Institute for Urban Health programs may also be considered. Participants should not have any other obligations that conflict with a 9-5 Monday to Friday schedule. The program is 5-6 weeks in length. Recognition: Certificate Paid? Yes Tuition/Fees? No Contact: Juan Marcos Alarcon, PhD, Director of REACH Program: juanmarcos.alarcon@downstate.edu | 718-270-1291

Application Deadline: 03/01/2019

YALE PATH TO A CURE SUMMER RESEARCH PROGRAM FOR HIGH SCHOOL STUDENTS

Yale University, Laboratory Medicine, New Haven, CT <u>https://science.yalecollege.yale.edu/</u>

Overview: The Yale Path to a Cure Summer Research Program for High School students, sponsored by the Department of Laboratory Medicine, matches qualified local Connecticut High School students with research mentors in the Dept. of Laboratory Medicine and other participating departments in Yale Medical School. No previous experience required. Students are exposed to real bench research and are expected to keep a detailed notebook and participate as researchers in actual research projects. Depending on the nature of the project, students will learn important laboratory techniques routinely used in molecular biology, cell biology and genomics research. In addition, students will also learn to read scientific research papers on specific topics chosen to enhance the intellectual component of this program. At the end of the program, students will present their results to each other and to the Yale Laboratory Medicine faculty. Yale Path to a Cure HS students will also write a brief report documenting their research progress. Selected students for this program must live in CT and be able to commute to/from home to Yale with adult supervision. Pathology: Depending on the nature of the project, students will learn important laboratory techniques routinely used in molecular biology, cell biology and genomics research. In addition, students will also learn to read scientific research papers on specific topics chosen to enhance the intellectual component of this program. Criteria: Selection requirements: all interested High School students 16 years old and over (this age restriction is strictly enforced) are asked to submit ALL the following items: 1. A 500-word essay on why are you interested in conducting biological research at Yale over the summer. Have you done any STEM-related activities in the past? If so, tell us about them, 2, A 500-word essay on what your long-term goals in STEM are and how this summer program will enhance this goal. 3. A CV (resume listing all the activities that you have been involved in) 4. A transcript from your high school listing the classes you've taken and your grades (unofficial HS transcript is fine). 5. The PSAT score (all 3 sections) or latest SAT/ACT score, if taken. 6. A letter of recommendation, sent by e-mail directly to Dr. Chang from your science teacher. This is an extremely important component of our evaluation process so make sure you get a letter from a science teacher who really knows your scientific abilities. Recognition: End of the program: Yale Path to a Cure students are expected to prepare a 15 minutes PowerPoint presentation describing what they accomplished in their summer research. The students are also required to write a 6 pages research paper on their research accomplishments. This paper could be the basis for submission to Regeneron, ISEF or CT science fairs, which the Yale Path to a Cure students are highly encouraged to apply for. Two years ago, a program participant was selected as a Regeneron Scholar! Paid? No Tuition/Fees? No, this program is free for the selected Yale Path to a Cure HS students, and students will not be paid a stipend. Contact: Sandy Chang, Ph.D., Associate Dean of Science and Quantitative Reasonings.chang@yale.edu | 203.737.4667

Application Deadline: 04/02/2019

This compilation of opportunities in pathology for students is based on voluntary submissions from departmental members of the Association of Pathology Chairs (APC) and is not a comprehensive list. There are many other resources on the Internet for programs and experiences available, such as listings at the AAMC and NIH.

For High School, College, Post-Baccalaureate and Medical Students Compiled by the Association of Pathology Chairs (APC) – October 2018



VARIOUS TYPES OF CAREER EXPLORATION PROGRAMS University of Texas Health San Antonio

Recruitment and Science Outreach, San Antonio, TX www.uthscsa.edu/outreach

Overview: UT Health San Antonio offers a variety of career exploration programs in the summer and throughout the school year. These pipeline initiatives range from daily group campus visits, one week workshops and extended research and mentorship opportunities. **Pathology:** Pathology as one component of a more integrated and broader experience **Criteria:** Groups and/or individuals can read about and register for programs via the website. If minors are interested in individual research experiences, they must be 16 years of age and complete a packet of documents and training sessions before entering the lab of their assigned mentors. **Recognition:** Most programs have certificates of completion, but not all. **Paid?** Yes Some programs do not have fees associated with participation, however a few do. **Contact:** Irene Chapa, Director, Office of Recruitment and Science Outreach: Chapai@uthscsa.edu | 210-567-3941

Application Deadline: Different programs have different deadlines.

DSHREP, ROADS AND AIM (Summer)

Medical College of Wisconsin, Milwaukee, WI

http://www.mcw.edu/Summer-Enrichment-Programs.htm

Overview: AIM - In this course students will gain an understanding and appreciation of common, important medical problems that have an impact on their community. AIM is an intensive six-week summer program where high school students participate in a variety of enrichment experiences such as classroom lecture with an introduction to anatomy and physiology, suture clinics, heart dissections, clinical shadowing and team exercises. ROADS - In this course students are provided with experiences in a research laboratory setting to stimulate their career interest in biomedical research. ROADS is an intensive seven-week summer program where high school students participate as an active member of a research team with the goal of preparing them for the rigors of college. Students learn strategies to improve upon their learning skills and increase their scientific knowledge. They are exposed to a variety of professional development seminars, biomedical innovation and career exploration. DSHREP - In this course students will learn basic science topics and how science and research inform medical practice. DSHREP is a 10-week summer program supported through an R25 research education grant funded by National Heart, Lung, Blood Institute (NHLBI), an agency of National Institutes of Health (NIH) where undergraduate and postbaccalaureate students participate in a variety of enrichment experiences such as weekly lecture seminars, professional development, teambuilding activities and professional school preparedness strategies. Students gain valuable research experience, refine critical thinking skills, enhance their mentoring network and explore a variety of science disciplines. Pathology: Pathology as one component of a more integrated and broader experience Criteria: Each program has a separate requirements Recognition: Certificate Paid? Yes Tuition/Fees? No Contact: Jean Mallett, Program Manager: jmallett@mcw.edu | 414-955-8735

Application Deadline: Each program has a different deadline

FOR COLLEGE STUDENTS

SHADOWING (1day/week)

University of California, San Francisco Department of Pathology, San Francisco, CA www.pathology.ucsf.edu

Overview: Students with an existing UCSF affiliation are invited to contact UCSF Pathology for a possible informal shadowing experience, 1 day/week. Pathology: Only a Pathology/Lab Medicine experience. Paid? No. Tuition/Fees? No. Recognition: There is no certificate or degree available. This experience is open to college students and above. Criteria: Student must have existing UCSF affiliation and a current CV at the time of inquiry. Accommodations will be made based on space in our electives. | Contact: Raga Ramachandran, MD, PhD, Director of Medical Education: raga.ramachandran@ucsf.edu. Application Deadline: 12/01/2018

PATHOLOGY OBSERVATION (40-160 hours) University of Rochester Medical Center

Pathology and Laboratory Medicine, Rochester, NY

Overview: The Pathology and Laboratory Medicine Department at the University of Rochester provides serious applicants with opportunities to observe the professionals engage in job duties that align with candidates interest in a variety of roles within the department. Pathology: Pathology/Lab Medicine experience only Criteria: Resume's and requests viewed on a case by case basis as well as each potential observer must go through an application process via the School of Medicine and Dentistry. Recognition: Final project submitted by the student. Paid? No. All fees associated with the experience are the responsibility of the observer. Tuition/Fees? No Contact: Vicki Roberts 585-276-3688, Education Manager: Vicki_Roberts@urmc.rochester.edu 585-276-6401 Application Deadline: 01/01/2019

SUMMER RESEARCH INTERNSHIP PROGRAM (SRIP)

University of Virginia, Department of Pathology, Charlottesville, VA https://med.virginia.edu/srip

Overview: SRIP provides an immersive, 10-week summer research experience coupled with professional development opportunities and communication workshop designed to prepare students for success with subsequent graduate school and/or medical school applications. **Pathology:** Pathology as one component of a more integrated and broader experience. **Paid?** Yes program provides roundtrip travel, housing near the School of Medicine, and a generous stipend. **Tuition/Fees?** No. **Recognition:** Certificate of completion. **Criteria:** Application requires two short essays covering interests and goals, transcript(s) and letters of recommendation. Prior research experience is NOT required. **Contact:** Janet V. Cross, Assistant Dean for Graduate Research and Training: cross@virginia.edu | (434) 243-9401

Application Deadline: 02/01/2019

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP (Summer) Mayo Clinic, Rochester, MN

Overview: 10 week undergraduate research fellowship for college students (after at least one year college) considering graduate studies and research career (PhD or MDPhD). Pathology: Pathology as one component of a more integrated and broader experience Criteria: One year college Recognition: Summer research experience Paid? No Tuition/Fees? No Contact: Glenda Mueller, SURF Program Coordinator: gmueller@mayo.edu Application Deadline: 02/01/2019

UNDERGRADUATE PIPELINE NETWORK (UPN) SUMMER RESEARCH University of New Mexico Health Sciences Center

Pathology, Albuquerque, NM

https://hsc.unm.edu/research/brep/undergraduate/upn/index.html

Overview: The Undergraduate Pipeline Network summer research experience seeks to cultivate students' interest in research while helping them attain skills needed to apply for and succeed in postbaccalaureate education. The program provides the opportunity for students to choose from several areas of research at the University of New Mexico's Health Sciences Center. The program period covers 10 weeks in the summer and scholarss participate in the program a

For High School, College, Post-Baccalaureate and Medical Students Compiled by the Association of Pathology Chairs (APC) – October 2018

minimum of 40 hours per week. Each scholar is mentored during the program by a faculty member. In addition, scholars will have regular contact with a graduate student, post-doctoral fellow, medical resident, clinical fellow, or research staff member during the entire period of their program. Each scholar has a research project that provides the student with sufficient opportunity to demonstrate his/her ability to conduct independent research. Scholars will present their research project to the scientific community during the program's competitive poster symposium. The UPN Program awards each scholar a summer experience package to cover a stipend, activity fees and some meals. The total package is worth approximately \$5,000. Pathology: Summer research in laboratories within the department of Pathology Criteria: Have a minimum 3.0 GPA. Be an enrolled undergraduate at the time of the program with a graduation date no earlier than December 2019. Currently attend a college or university in the United States. Be a US Citizen or Permanent Resident (green card holder). Recognition: 1 credit Paid? Yes Tuition/Fees? Students are responsible for their own housing and travel to NM. Contact: Lynette Eisenbeck/Biomedical Research Education Program Office, Education Specialist: UPN-L@unm.edu | (505) 272-1887.

Application Deadline: 02/01/2019

GSAS-LEADERSHIP ALLIANCE SUMMER RESEARCH PROGRAM (Summer) Columbia University, multiple sites

Pathology & Cell Biology, New York City, NY https://gsas.columbia.edu/our-intellectualcommunity/diversity/summer-research-program

Overview: The Graduate School of Arts and Sciences hosts the eightto ten-week Summer Research Program (SRP) for undergraduates with a demonstrated commitment to diversity and inclusion. Participants conduct graduate-level research under the supervision of a Columbia faculty mentor, approximating the graduate experience through exposure to the mentor/advisee relationship, scholarly research opportunities, and independent living. The aim of the program is to foster a deeper knowledge of the field in question, to hone skills that are necessary for success in doctoral study, and to encourage students to pursue academic careers. SRP does not offer preparation for the professional schools (e.g., business, education, engineering, journalism, medical, law, and social work). The Summer Research Program began at Columbia in 1989 and is hosted in conjunction with The Leadership Alliance, a consortium of thirty-two institutions of higher learning that has a mission to "develop underrepresented students develop into outstanding leaders and role models in academia, business, and the public sector." Pathology: Pathology as one component of a more integrated and broader experience Criteria: Be entering their junior or senior year in Fall 2018 Be at least 18 years old by the start date of the program Be a US citizen or permanent resident Have a 3.0 grade-point average (GPA) or higher. Show potential for doctoral study in proposed field; transcript should demonstrate course work in proposed area of research Demonstrate a commitment to increasing diversity in academia Recognition: Certificate Paid? Yes \$5,000 stipend, travel up to \$500, on-campus housing Tuition/Fees? No Contact: Graduate School of Arts and Sciences, 109 Low Memorial Library, MC 4306, gsas-diversity@columbia.edu.

Application Deadline: 02/01/2019

MENTORED STUDENT RESEARCH PROGRAM (Summer)

Des Moines University

Dept. of Microbiology, Immunology and Pathology, Des Moines, IA https://cme.dmu.edu/MSRP2018

Overview: The Mentored Student Research Program (MSRP) is a competitive program in which DMU students, as well as undergraduates, work alongside DMU faculty mentors on research projects in areas such as microbiology, immunology, pathology, pharmacology, physiology, biochemistry, public health, and physical therapy. The majority of the program takes place over an eight-week period between Memorial Day and the end of July and includes additional learning opportunities such as research presentations from DMU faculty and a closing program that includes a guest speaker as well as oral and poster presentations by MSRP program participants. MSRP participants are paid \$12 per hour and may work up to 40 hours

per week during the summer, 20 hours per week during the school year, and up to 320 hours total during the program. **Pathology:** Research in pathology lab **Criteria:** Undergraduate student selection of applicants is based on academic performance in the sciences, statement of career and academic goals, and a letter of recommendation from a biology or health science faculty member. Participants are paid \$12 per hour, but no housing is provided. **Recognition:** Abstract presentation at DMU summer research symposium **Paid?** Yes **Tuition/Fees?** No **Contact:** Jill Hamilton, Administrative Assistant: jill.hamilton@dmu.edu | 515-271-1445.

Application Deadline: 02/10/2019

SUMMER PROGRAM FOR UNDER-REPRESENTED STUDENTS (Summer) Columbia University

Vagelos College of Physicians & Surgeons, New York City, NY http://www.spurs.columbia.edu/index.html

Overview: An intense research fellowship at the Columbia University Vagelos College of Physicians & Surgeons intended to provide meaningful training in biomedical research and to enhance the students' ability to achieve a career in biomedical research and/or medicine by pursuing an advanced degree. The program includes mentoring, lab based research, instruction in lab based safety, a series of talks by distinguished researchers, weekly seminars and workshops with experience in presenting research projects, and social events (field trips, NY Philharmonic concert in Central Park, baseball game, and a farewell dinner). Pathology: Pathology as one component of a more integrated and broader experience Criteria: - US citizen or permanent resident - undergraduate student (rising juniors and seniors) with a GPA of 3.2 or above - underrepresented minority students and/or students from economically or educationally disadvantaged - interested in pursuing graduate education in a backarounds biomedical field (MD, MD/PhD, or PhD) Recognition: Certificate Paid? Yes \$4,000 stipend Tuition/Fees? No Contact: Castalia Sanchez, Administrative coordinator: ana_spurs@cumc.columbia.edu 212.851.5340. Application Deadline: 02/11/2019

SUMMER HEALTH PROFESSIONS EDUCATION PROGRAM (Summer) Columbia University (New York City, NY), and other sites nation-wide http://www.shpep.org/about/

Overview: The Summer Health Professions Education Program (SHPEP) is a free summer enrichment program focused on improving access to information and resources for college students interested in the health professions. SHPEP's goal is to strengthen the academic proficiency and career development of students underrepresented in the health professions and prepare them for a successful application and matriculation to health professions schools. These students include, but are not limited to, individuals who identify as African American/Black, American Indian and Alaska Native and Hispanic/Latino, and who are from communities of socioeconomic and educational disadvantage. Pathology: Multiple program sites across the country Criteria: Must be a high school graduate and currently enrolled as a freshman or sophomore in college. Have a minimum overall college GPA of 2.5. Be a U.S. citizen, a permanent resident, or an individual granted deferred action for childhood arrivals (DACA) status by the U.S. Citizenship and Immigration Services. Must have health insurance. Recognition: Certificate Paid? Yes \$600 stipend, travel assistance, and housing at the medical center Tuition/Fees? No, only health insurance Contact: Marcus D. Howard, MPH: shpep-ps@columbia.edu | 212 305 Application Deadline: 02/15/2019 4157.

EDMONDSON SUMMER RESEARCH INTERNSHIP (Summer) University of California, Davis Health

Pathology & Laboratory Medicine, Sacramento, CA https://www.ucdmc.ucdavis.edu/pathology/education/edmondson_

research_fellowship/index.html

Overview: The Hugh Edmondson Summer Research Internship Program provides a unique eight-week research opportunity for motivated undergraduate college students who have demonstrated a strong interest in research in the health sciences. The internship program offers research opportunities under the supervision and mentorship of pathology faculty in various pathology laboratories located at the UC



For High School, College, Post-Baccalaureate and Medical Students Compiled by the Association of Pathology Chairs (APC) – October 2018



Application Deadline: 02/15/2019

VARIOUS TYPES OF CAREER EXPLORATION PROGRAMS University of Texas Health San Antonio

Recruitment and Science Outreach, San Antonio, TX www.uthscsa.edu/outreach

Overview: UT Health San Antonio offers a variety of career exploration programs in the summer and throughout the school year. These pipeline initiatives range from daily group campus visits, one week workshops and extended research and mentorship opportunities. Pathology: Pathology as one component of a more integrated and broader experience Criteria: Groups and/or individuals can read about and register for programs via the website. If minors are interested in individual research experiences, they must be 16 years of age and complete a packet of documents and training sessions before entering the lab of their assigned mentors. Recognition: Most programs have certificates of completion, but not all. Paid? Yes Some programs do not have fees associated with participation, however a few do. Contact: Irene Chapa, Director, Office of Recruitment and Science Outreach: Chapai@uthscsa.edu | 210-567-3941

Application Deadline: Different programs have different deadlines.

DSHREP, ROADS AND AIM (Summer)

Medical College of Wisconsin, Milwaukee, WI

http://www.mcw.edu/Summer-Enrichment-Programs.htm.

Overview: AIM - In this course students will gain an understanding and appreciation of common, important medical problems that have an impact on their community. AIM is an intensive six-week summer program where high school students participate in a variety of enrichment experiences such as classroom lecture with an introduction to anatomy and physiology, suture clinics, heart dissections, clinical shadowing and team exercises. ROADS - In this course students are provided with experiences in a research laboratory setting to stimulate their career interest in biomedical research. ROADS is an intensive seven-week summer program where high school students participate as an active member of a research team with the goal of preparing them for the rigors of college. Students learn strategies to improve upon their learning skills and increase their scientific knowledge. They are exposed to a variety of professional development seminars, biomedical innovation and career exploration. DSHREP - In this course students will learn basic science topics and how science and research inform medical practice. DSHREP is a 10-week summer program supported through an R25 research education grant funded by National Heart, Lung, Blood Institute (NHLBI), an agency of National Institutes of Health (NIH) where undergraduate and postbaccalaureate students participate in a variety of enrichment experiences such as weekly lecture seminars, professional development, teambuilding activities and professional school preparedness strategies. Students gain valuable research experience, refine critical thinking skills, enhance their mentoring network and explore a variety of science disciplines. **Pathology**: Pathology as one component of a more integrated and broader experience **Criteria**: Each program has a separate requirements **Recognition**: Certificate **Paid**? Yes **Tuition/Fees**? No **Contact**: Jean Mallett, Program Manager: jmallett@mcw.edu | 414-955-8735

Application Deadline: Each program has a different deadline.

FOR POST-BACCALAURATE GRADUATES

(already attained a Bachelor's degree)

MASTER OF SCIENCE IN MODERN HUMAN ANATOMY (More than 1 year) University of Colorado, Cell and Developmental Biology, Aurora, CO http://www.ucdenver.edu/academics/colleges/medicalschool/dep artments/CellDevelopmentalBiology/MSMHA/Pages/default.aspx

Overview: The Master of Science program in Modern Human Anatomy (MSMHA) provides graduate level training and teaching experience in the physical and virtual anatomical sciences. The curriculum integrates 3D computer imaging and modeling with human cadaver dissection, neuroanatomy, histology, and embryology. Pathology: Pathology as one component of a more integrated and broader experience Criteria: Bachelor's degree Recognition: Degree Paid? No Tuition/Fees? Yes Contact: Jennifer Thurston, Program Director: jennifer.thurston@ucdenver.edu | 303-724-5902

Application Deadline: 03/15/2019

CLINICAL ANATOMY CERTIFICATE PROGRAM (Summer) Eastern Virginia Medical School

Department of Pathology and Anatomy, Norfolk, VA http://www.evms.edu/education/masters_programs/contemporary_h uman_anatomy/certificate_in_anatomy/

Overview: Full human dissection anatomy course worth 5 graduate credits. Pathology: Clinical Gross Anatomy. Paid? No. Tuition/Fees? Yes. Recognition: Certificate. Basic Criteria: Bachelor's degree. Contact: Carrie Elzie, Director: elzieca@evms.edu | (757) 446-5787

Application Deadline: 04/15/2019

GRADUATE CERTIFICATE IN MOLECULAR AND BIOMEDICAL SCIENCES (Two Semesters)

Herbert Wertheim College of Medicine Florida International University, Miami, FL

https://medicine.fiu.edu/academics/degrees-andprograms/certificate-in-molecular-and-biomedicalsciences/index.html

Overview: Students who wish to gain admission to medical school. **Pathology**: Pathology as one component of a more integrated and broader experience. **Paid?** No. **Tuition/Fees?** Yes. **Recognition**: Certificate. **Basic Criteria**: Bachelor's degree and all premedical prerequisite courses completed.. **Additional Info**: The majority of graduates have gained admission to medical school following completion of this program. Contact: Dr. Barbra Roller: Barbra.Roller@fiu.edu | (305) 348-0644 and (305) 348-7289

Application Deadline: 06/15/2019

This compilation of opportunities in pathology for students is based on voluntary submissions from departmental members of the Association of Pathology Chairs (APC) and is not a comprehensive list. There are many other resources on the Internet for programs and experiences available, such as listings at the AAMC and NIH.

