

# POST-BACCALAUREATE CERTIFICATE IN MEDICAL GENETICS AND MOLECULAR BIOLOGY

The post-baccalaureate certificate program in Medical Genetics and Molecular Biology includes coursework that will prepare individuals to pass the Technologist in Molecular Biology board of certification examination as well as for careers in: clinical laboratories, public health laboratories, research institutions, law enforcement agencies, molecular sections of hospital laboratories, reference laboratories, biotechnology firms and pharmaceutical companies.

## ADMISSIONS

Application Fall: July 20

Deadline

Recommendation: One letter of recommendation required

**Prior academic records** Transcripts are required from all colleges and universities attended (including via dual enrollment), whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Transcripts must be forwarded in their original sealed envelopes. Official transcript may also be sent electronically directly from the institution.

**Statement of purpose** Applicants must include a 250–500 word essay describing your reasons for undertaking study at GW, your academic objectives, career goals, and related qualifications including collegiate, professional, and community activities relevant to your program of interest. Include any substantial accomplishments not already mentioned on the application form.

**Additional requirements** Resume/CV

2.5 GPA or above on a 4.0 scale

Bachelor's degree from an accredited college or university.

At the time of admission, students who live outside of the Washington, D.C. metro area are required to secure a clinical site which satisfactorily meets the requirements for a medical genetics and molecular biology clinical rotation.

All students must successfully meet the criminal background check and drug screen requirements. (<https://smhs.gwu.edu/academics/health-sciences/academics/admissions/background-checks-and-drug-screenings>)

Since each state may have different requirements for licensure, each student is encouraged to contact their state's regulating agency and review these requirements prior to beginning any degree program. State's requiring licensure may require extended duration of practicum experiences, additional academic courses (outside the student's program of study), etc. These additional requirements may require you to take a course or courses outside of GW.

In particular, New York and California have additional requirements for state licensure. Both NY and CA require extended times for practicum rotations. Please also be aware that the fully online post-baccalaureate certificate programs do not meet the student lab requirement for NY state licensure. Also, for those applying to the fully online post-baccalaureate categorical certificates in hematology, microbiology, blood banking, and chemistry, the state of New York does not provide licensure for categorical certification (e.g., Technologist in Microbiology, Technologist in Blood Banking, etc.). We recommend that students who live in New York or California or plan to relocate to New York or California do research to determine the NY and CA licensure requirements.

**Prerequisites** All required courses must be completed with a C grade (C- grades and lower do not transfer) or better at a regionally accredited institution of higher learning:

English Composition (3 credits)

College Algebra, Statistics, or higher (3 credits)

Biology (lecture and "hands-on" lab) (8 credits)

Microbiology (General or Clinical/Medicine – lecture and "hands-on" lab) (4 credits)

Chemistry (lecture and "hands-on" lab) (8 credits)

Organic Chemistry, Biochemistry, or Clinical Chemistry (3 credits)

**International Students:** International students should check with individual programs regarding eligibility for visa sponsorship. Generally, online and hybrid programs are not eligible for student visa sponsorship from GW. This would include transfer students from any other institution with an existing visa.

Official transcripts from institutions outside the U.S. must be accompanied by an official transcript evaluation from an accredited independent evaluating agency. Please be sure you request a detailed evaluation that includes all course titles, credit hours, grades, U.S. degree equivalency, grade-point averages (GPA), and date of degree conferral. For a list of acceptable foreign credential evaluation services, please click here (<https://www.naces.org/members.php>).

Applicants who are not U.S. citizens are required to submit official test scores for either Test of English as a Foreign Language (TOEFL) or#Pearsons#Test of English (PTE), Academic the academic International English Language Testing System (IELTS) or the Duolingo English Test (DET). The following are the minimum scores for admission consideration:#TOEFL: 600 on paper based, 250 on computer-based, or 100 Internet-based, PTE: overall score of 68, IELTS: an overall band score of 7.0, with no individual band score below 6.0, or DET overall score of 120. \*Scores can be no older than 2 years.

International applicants who meet the following conditions may be considered for admission without submitting TOEFL, PTE or IELTS or DET scores:#They are a citizen of countries where English is the official language (as identified by GW ISO list of Exempt countries) OR; They hold at least a#bachelor#degree from a country where English is the official language as well as language of instruction OR; They hold at least a#bachelor#degree from an institution accredited by a U.S. regional accrediting agency.

MLS 4242	Applications of Molecular Testing
MLS 4266	Molecular Diagnostics Practicum

**Supporting documents not submitted online should be mailed to:**

George Washington University

ATTN: Transcript Processing Center  
 1415 W 22<sup>nd</sup> St.  
 Suite 220  
 Oak Brook, IL 60523

Documents may be submitted electronically  
 to: transcripts@hsprograms.gwu.edu.

**Contact for questions:**

hsphora@gwu.edu  
 202-994-0384 (phone)  
 Hours: 9:00 am to 5:00 pm, Monday through Friday

## REQUIREMENTS

The following requirements must be fulfilled: 24 credits in required courses.

Code	Title	Credits
MLS 4158	Laboratory Management and Operations	
MLS 4170	Introduction to Molecular Biology	
MLS 4171	Human Genetics	
MLS 4172	Molecular Diagnostics Capstone	
MLS 4217	Molecular Techniques	