



# **JOHNS HOPKINS HOSPITAL SCHOOL OF CARDIAC SONOGRAPHY GENERAL INFORMATION**

## **General Program Description**

The Echocardiography Program is part of The Johns Hopkins Hospital School of Cardiac Sonography. This school is administered by the Division of Cardiology. The program is a 14-month (56 week) competency-based, full-time program whose mission is to graduate skilled and proficient entry-level sonographers. In order to accomplish this mission, the integrated curriculum is designed to provide both theoretical training in the principles of medical imaging and provide hands-on clinical training.

The Division of Cardiology provides the clinical training of approximately 32 hours per week, or 4 full days per week. The clinical training consists of the opportunity to observe, practice and perform transthoracic echocardiograms on real patients with staff sonographer guidance and supervision at The Johns Hopkins Hospital as well as several affiliate clinical sites. The rotation also provides limited clinical experience, primarily involving observation, with transesophageal echocardiography and stress echocardiography. The didactic instruction includes the study of normal cardiac anatomy and physiology, and cardiac pathology and pathophysiology. The students are provided academic direction of approximately 4 hours per week or 1 lecture day per week. Scan lab allows the students hands-on practice of echocardiography in a simulated environment under the supervision and guidance of an instructor 4 hours per week. The faculty to student ratio for didactic training is 10:1 and for all clinical training is 1:1. Total program hours is approximately 2201.

## **General Application Information**

The summer cohort application window is open from December 1 to March 1, with classes beginning in July. Applications and all supporting documents and transcripts must be postmarked by March 1. Applications received after that date will be considered on a space-available basis.

The winter cohort application window is open from July 1 to October 1, with classes beginning in January. Applications and all supporting documents and transcripts must be postmarked by October 1. Applications received after that date will be considered on a space-available basis.

The School of Cardiac Sonography cannot sponsor international students for an F-1 or J-1 Visa. Only international students that possess a green card can be accepted.

## **Application Requirements**

- Applicants must be 18 years old and have a minimum of an associate degree by the date of matriculation with a minimum GPA of 3.0
- Application fee of \$40.00 (non-refundable)
- Completed application form (see application section on website)
- Two reference letters, completed on provided forms
  - Applicants must request a reference letter from a professor or instructor and a letter from their current employer. If the applicant does not have an employment history, an additional academic reference may be substituted.
- Statement of intent
- Official transcripts from all post-high school education
  - Foreign transcripts must be evaluated by one of the agencies in the United States that performs academic credential evaluations. Applicants with academic degrees from international institutions are required to take both the TOEFL and TSE examinations within twelve (12) months of the application deadline
- All prerequisite coursework must be completed by the date of matriculation with a grade of C or better
- The application fee must be mailed to the School address listed below. All other application materials may be emailed to the Program Director at [JHHEchoProgram@jh.edu](mailto:JHHEchoProgram@jh.edu)

Johns Hopkins Hospital  
School of Cardiac Sonography  
1800 Orleans Street  
Sheikh Zayed Tower #4052  
Baltimore, Maryland 21287

## **Prerequisite Coursework**

- College Algebra or higher mathematics course
  - Statistics does not satisfy this requirement
- Communications
  - May be satisfied by English, speech, or composition courses
- Anatomy & Physiology I with lab (4 credit hours)
- Anatomy & Physiology II with lab (4 credit hours)
- Medical Terminology

- Must be an official academic course resulting in a grade on a school transcript
- Physics with lab (4 credit hours)

A&P I and II, medical terminology, and physics cannot be more than five years old.

There is no credit given for previous academic or clinical training in the imaging sciences.

## **Background Check**

Consistent with The Johns Hopkins Hospital policy, all students accepted into the School of Cardiac Sonography must submit to and successfully pass a background check.

## **Physical Exam**

A pre-employment physical, conducted by Occupational Health at The Johns Hopkins Hospital must be completed prior to the beginning of class. Students must submit to a drug screening and show proof of immunity to childhood illnesses, such as measles, mumps, rubella and varicella. Students who fail to show immunity to these childhood diseases will be offered the vaccines. Students will receive a tuberculosis skin test or blood test. Students will have the opportunity to receive the series of Hepatitis B vaccinations. All students will be required to have a yearly influenza vaccination, which is provided by the hospital. There is no fee for the above-named services.

## **Physical & Technical Standards**

The Johns Hopkins School of Cardiac Sonography has established physical and technical standards and performance criteria that must be met by the students in the program.

Students are expected to do the following:

- Push, pull and lift a minimum of 50 pounds
- Assist patients on and off imaging tables, wheelchairs and stretchers
- Stand for long periods of time
- Push and maneuver wheelchairs, stretchers and IV poles
- Be capable of fine motor control to manipulate the transducer to obtain images
- Auditory capabilities, with or without aids, to hear and interpret Doppler signals
- Visual acuity, with or without correction, to distinguish shades of gray, all colors and see small details
- Communication abilities to accurately receive, comprehend, write and interpret verbal and written communication
- Perform CPR
- Performing twisting, lifting, pulling, and carrying for purposes of moving equipment and moving patients

- Organize and accurately perform the individual steps in a sonographic procedure in the proper sequence and within the required time frame
- Perform in fast-paced clinical situations

*Students must also possess the emotional stability and maturity to effectively cope in a highly stressful and sometimes emotionally charged medical environment.*

## **Tuition and Fees**

Total tuition for the School of Cardiac Sonography is \$17,500.00. It is the responsibility of the student to have tuition payments in the school office by the due date. Four installments of \$4,375.00 will be due over the course of program at designated dates.

The office does not send out an invoice for tuition. Students may be offered a two-week grace period. At the end of the grace period, the payment must be made, along with a \$35.00 late fee. The program has the right to suspend the student's educational training based on non-payment of tuition. Students receiving scholarships can defer that part of their tuition that will be covered by scholarships. The remaining amount of the tuition must be paid by the due date detailed for the particular course of study.

Tuition checks should be made payable to The Johns Hopkins Hospital School of Cardiac Sonography.

Additional out-of-pocket fees for the School of Cardiac Sonography are:

- Application fee: \$40 (non-refundable)
- Background check: \$55.11 (only for accepted students)
- Books and supplies: approximately \$800
- Uniforms: approximately \$300

Please note, all tuition and fees are subject to change. These figures do not include room, board, health insurance, or transportation. Students are responsible for purchasing their own books and uniforms.

## **Financial Aid**

The School of Cardiac Sonography is recognized as an eligible institution of higher education for purposes of state financial aid programs. These include Maryland State Scholarships, but do not include Federal financial aid such as Pell Grants and Stafford loans. All financial arrangements should be resolved before attending the program. Students receiving scholarships may defer that part of their tuition that will be covered by the scholarships. The remaining amount must be paid by the due date. Students may also apply for loans through Sallie Mae. The student may pay for tuition payments by using a check or major credit card. Students may also wish to apply for a personal loan through their banking institution. Because the School of Cardiac Sonography does not participate with federal financial aid, the School may not sign off on any government loan deferment.

## **Clinical Training Sites**

Clinical training in the Program will be completed at various clinical facilities within the Baltimore metropolitan area. Students will rotate a total of 10 times throughout the clinical sites. The start and end time for clinicals will vary by site, but will not exceed 40 hours/week. Proximity to clinical site will be considered, but students must be capable of traveling to all sites listed below. At the conclusion of Didactic and/or Scan Lab, students will attend clinicals during that time.

- The Johns Hopkins Hospital (8:00-4:30)
- Johns Hopkins Bayview Medical Center (7:30-4:00)
- Johns Hopkins Community Physicians, Inc. – Odenton (7:30-4:00)
- Johns Hopkins University School of Medicine – Green Spring Station (7:30-4:00)
- Johns Hopkins University School of Medicine – Columbia (7:30-4:00)
- Johns Hopkins University School of Medicine – White Marsh (6:30-5:00)
- Johns Hopkins University School of Medicine – GBMC, 7:00-3:30
- Howard County General Hospital, Inc. - Columbia, 8:00-4:30
- Sibley Memorial Hospital – Washington, DC, 8:00-4:30

## **Hours**

All students will be in clinical or lecture Monday through Friday, for a total of 40 hours/week. The time will be split approximately 4 hours of didactic lecture, 4 hours of scan lab, and 32 hours of clinical time. This is subject to change from week to week, but total lecture and clinical time will not exceed 40 hours/week.

Students receive a bank of 80 hours to use for personal and sick time. An additional one-week spring break is also granted to students. Students are not in attendance for the following Hospital holidays:

- New Year's Day
- Martin Luther King, Jr. Day
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Christmas Day

## **Resignation and Dismissal**

If a student decides to withdraw from the program, a written resignation must be submitted to the Program Director. A student who has made the decision to resign from the program is asked to complete a written and verbal exit interview with the Program Director.

Any student who is being dismissed from the program will be asked to attend a formal conference with the Program Director.

## **Refund Policy**

All fees paid by a student shall be refunded if the student chooses not to enroll in or to withdraw from the school within 7 calendar days after having signed a contract. If, after the 7-day cancellation period expires, a student withdraws after instruction begins, refunds shall be based on the total contract price for the course or program (assuming the entire tuition was paid prior to beginning the program). It shall include all fees, except application and enrollment fees. Any charges for materials, supplies, or books that have purchased by the student are also non-refundable and are the property of the student.

Uniform, books, application fees, and background check fees are not refundable.

Percentages of refunds are based on the academic/billing period completed by date of withdrawal.

Less than 10%	90% refund of total cost of program
10% up to but not including 20%	80% refund
20% up to but not including 30%	60% refund
30% up to but not including 40%	40% refund
40 % up to 50%	20% refund
More than 50%	no refund

A refund due a student shall be based on the date of withdrawal or termination and paid within 60 days from the date of withdrawal or termination. In case of an official leave of absence, if a student fails to return to training by the end of the leave of absence, a refund due a student shall be based on the date of withdrawal or termination and paid within 60 days of the scheduled last day of the leave of absence.

If the school closes or discontinues, the school will

## **Accreditation & Approval**

The School of Cardiac Sonography is accredited by The Commission on Accreditation of Allied Health Education Programs (CAAHEP).

9355 – 113<sup>th</sup> St. N, #7709

Seminole, FL 33775

The School of Cardiac Sonography is approved by Maryland Higher Education Commission (MHEC)

6 N Liberty St.

Baltimore, MD 21201

Students may contact the CAAHEP or MHEC to access such information as the program enrollment, completion rate, placement rate and pass rate on the credentialing examination.