“At Johns Hopkins Medicine, we talk about excellence and discovery because both are firmly embedded in our more than 125-year history. Modern medical education was born and revolutionized here, and countless advances in medicine were made by Johns Hopkins physicians and scientists. We have evolved into an internationally recognized medical system built to deliver evidence-based medicine with cutting-edge innovation.

Paul B. Rothman, M.D.
Dean of the Medical Faculty
CEO, Johns Hopkins Medicine

Watch a video highlighting some of our research highlights from 2019.
# Table of Contents

- About Johns Hopkins  
  Slide 4
- The Founding Physicians  
  Slide 8
- Facts and Major Components  
  Slide 10
- Strategic Affiliation Highlights  
  Slide 20
- Notable Research and Clinical Milestones  
  Slide 25
- Medical Education  
  Slide 30
- Basic and Translational Research  
  Slide 36
- Diversity and Inclusion  
  Slide 45
- Community Relations  
  Slide 48
Mission

The mission of Johns Hopkins Medicine is to improve the health of the community and the world by setting the standard of excellence in medical education, research and clinical care.

Diverse and inclusive, Johns Hopkins Medicine educates medical students, scientists, health care professionals and the public; conducts biomedical research; and provides patient-centered medicine to prevent, diagnose and treat human illness.

Vision

Johns Hopkins Medicine pushes the boundaries of discovery, transforms health care, advances medical education and creates hope for humanity.

Together, Johns Hopkins Medicine will deliver the promise of medicine.
Core Values

- Excellence & Discovery
- Leadership & Integrity
- Diversity & Inclusion
- Respect & Collegiality
Johns Hopkins, the Quaker merchant, banker and businessman, left $7 million in 1873 to create The Johns Hopkins University and The Johns Hopkins Hospital, instructing his trustees to create new models and standards for medical education and health care.

He was named for his great-grandmother, Margaret Johns, her last name becoming his first (and confusing people ever since).

*Updated December 2020: Previously adopted accounts portray Johns Hopkins as an early abolitionist whose father had freed the family’s enslaved people in the early 1800s, but recently discovered records offer strong evidence that Johns Hopkins held enslaved people in his home until at least the mid-1800s. More information: [Hopkins Retrospective website](https://www.hopkinsretrospective.org).*
In 1890, Mary Elizabeth Garrett followed Johns Hopkins’ initial gift by leading, and making the foundational contribution to, a national fundraising campaign to establish the school of medicine. She required rigorous academic standards and admission for women on an equal basis with men.
The Founding Physicians

- William Henry Welch
- William Stewart Halsted
- William Osler
- Howard Kelly
Founding Physicians

**William Henry Welch (1850–1934)**
- Created the first graduate training program for physicians.
- Founded nation’s first (and currently largest) school of public health.

**William Stewart Halsted (1852–1922)**
- Started first formal surgical residency training program.
- Pioneered the use of surgical gloves.
- Radical mastectomy, hernia repair and thyroidectomy were among his innovations.
- 11 students went on to lead departments of surgery around the country

**William Osler (1849–1919)**
- Was first physician-in-chief at The Johns Hopkins Hospital (1889).
- Established first medical residency program as backbone of physician training.
- Pioneered practice of bedside teaching (medical rounds).
- Authored *The Principles and Practice of Medicine*, the most influential medical textbook of the 20th century.

**Howard Kelly (1858–1943)**
- Established gynecology as a true specialty.
- Invented numerous medical devices, including a urinary cystoscope and absorbable sutures, at Johns Hopkins.
Facts and Major Components
About Johns Hopkins Medicine

The Johns Hopkins Hospital opened in 1889, and the Johns Hopkins University School of Medicine opened four years later.

In 1986, the hospital trustees created The Johns Hopkins Health System Corporation to serve as the parent of the hospital and future subsidiary entities.

In 1996, the health system and the school of medicine joined together to become Johns Hopkins Medicine.
Organization Structure

* These entities are 100 percent owned by The Johns Hopkins Health System Corporation
** These entities are 50 percent/50 percent joint ventures between The Johns Hopkins Health System Corporation and The Johns Hopkins University
$8.5 billion in operating revenues

40,000-plus full-time equivalent employees; among largest private employers in Maryland

2.8 million-plus annual outpatient visits

360,000-plus annual emergency department visits

107,688-plus annual hospital admissions

At over $2 billion, The Johns Hopkins University is, for the 39th straight year, the leading U.S. academic institution in total research and development spending, according to the National Science Foundation’s rankings.

$300-350 million annually in philanthropy
Johns Hopkins University School of Medicine

- M.D./Ph.D. program—largest National Institutes of Health (NIH) medical science training program in the country
- M.D./M.P.H. and M.D./M.B.A. joint degree programs
- M.A. in medical and biological illustration
- Annually ranked second in NIH funding for U.S. medical schools ($469 million)
- Medical and doctoral students: over 1,200
- Full-time faculty: over 2,900
- Part-time faculty: over 1,200
The Johns Hopkins Hospital

The Johns Hopkins Hospital is ranked top in the nation for patients of all ages, based on *U.S. News & World Report*’s 2019–20 rankings of The Johns Hopkins Hospital at #3 and Johns Hopkins Children’s Center at #9.

1,162 licensed beds, over 2,413 full-time attending physicians

Johns Hopkins Children’s Center

Consistently ranked by *U.S. News & World Report* as one of the top centers in the nation.

Johns Hopkins Kimmel Cancer Center

National Cancer Institute-designated cancer center; consistently ranked among the top in the nation by *U.S. News & World Report*.

Johns Hopkins Bayview Medical Center

463 licensed beds, over 719 attending physicians

Note: all licensed bed counts are for 2019, including NICU
Facts and Components –
Other Johns Hopkins Hospitals

Johns Hopkins All Children's Hospital
St. Petersburg, Florida

- 259 licensed beds, 378 active medical staff members
- Ranked by *U.S. News & World Report* in two specialties

Howard County General Hospital
Columbia, Maryland

- 263 licensed beds, over 424 active medical staff members
- Designated by the Maryland Institute for Emergency Medical Services Systems as a Cardiac Interventional Center, Primary Stroke Center and Perinatal Referral Center

Note: all licensed bed counts are for 2019, including NICU
Facts and Components – Other Johns Hopkins Hospitals

Sibley Memorial Hospital
Northwest Washington, D.C.

- 288 licensed beds, more than 900 active medical staff members
- Johns Hopkins Kimmel Cancer Center at Sibley and pediatric radiation program are in partnership with Children’s National Health System
- Ranked by U.S. News & World Report as high-performing in hip replacement and colon cancer surgery

Suburban Hospital
Bethesda, Maryland

- 228 licensed acute care beds, more than 500 active medical staff members
- Designated by the Maryland Institute for Emergency Medical Services Systems as a Level II Trauma Center
- Ranked #16 in Maryland and #10 in the Washington, D.C., region by U.S. News & World Report

Note: all licensed bed counts are for 2019, including NICU
Other Johns Hopkins Health System Highlights

**Johns Hopkins HealthCare**
Managed care plans covering more than 429,000 people

**Johns Hopkins Community Physicians**
With over 40 primary and specialty care outpatient sites, Johns Hopkins Community Physicians handles more than 930,000 annual patient visits

**Johns Hopkins Home Care**
A full-service home care provider with over 170,400 patients served

*Note: Figures are for 2019*
Johns Hopkins Medicine International

- Serves as the global ambassador of the Johns Hopkins Medicine mission
- Develops sustainable, innovative collaborations that raise the standard of health care around the world
- Provides personalized care for diverse populations
- Leverages Johns Hopkins’ extensive knowledge base in medicine, nursing, public health, medical education, research and health care administration to deliver the promise of medicine all over the globe

Watch a video about our international patient services.
Johns Hopkins Medicine International’s Global Affiliations

[Map showing various international affiliations with institutions named like Johns Hopkins Medicine, Hospital Punta Pacífica, etc.]
### Johns Hopkins Medicine Affiliates

<table>
<thead>
<tr>
<th>ANNE ARUNDEL MEDICAL CENTER</th>
<th>GREATER BALTIMORE MEDICAL CENTER</th>
<th>MT. WASHINGTON PEDIATRIC HOSPITAL</th>
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<tbody>
<tr>
<td><strong>Anne Arundel County</strong></td>
<td><strong>Towson</strong></td>
<td><strong>Baltimore</strong></td>
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- Anne Arundel Medical Center’s Geaton and JoAnn DeCesaris Cancer Institute is aligned with Johns Hopkins Medicine through a breast reconstruction program, expanded cancer clinical trials available to Anne Arundel Medical Center patients and jointly held tumor conferences.

- Johns Hopkins Children’s Center hosts clinics at Anne Arundel Medical Center in the areas of pediatric gastroenterology, pediatric neurology, pediatric pulmonology and pediatric surgery.

- Johns Hopkins physicians manage and supervise all heart-related inpatient and outpatient testing, an enhanced pediatric surgery practice, and head and neck cancer surgery and voice centers.

- Johns Hopkins physicians collaborate with Greater Baltimore Medical Center staff at the Johns Hopkins Heart Center.

- GBMC houses two Johns Hopkins integrated residency programs for Gyn/Ob and otolaryngology.

- Jointly owned by Johns Hopkins Medicine and the University of Maryland Medical System, the Mt. Washington Pediatric Hospital is a 102-bed nonprofit children’s hospital that provides long-term care for children with complex health problems.
### Johns Hopkins Medicine Affiliates

<table>
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<tr>
<th>WELLSPAN HEALTH</th>
<th>ALLEGHENY HEALTH NETWORK (AHN)</th>
<th>EXTENDED SERVICES</th>
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<tr>
<td><strong>Pennsylvania</strong></td>
<td><strong>Pennsylvania</strong></td>
<td><strong>Maryland</strong></td>
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- Collaborates with Johns Hopkins Kimmel Cancer Center to access clinical trials, coordinate referrals and provide second opinions.
- Collaborates with Johns Hopkins Medicine to provide general pediatric surgery and plastic and reconstructive surgery closer to where patients live.

- Collaborates with Johns Hopkins Kimmel Cancer Center and the Johns Hopkins Department of Gynecology and Obstetrics for consultations, clinical trials and research. The organizations work on initiatives designed to foster clinical advancements and a broad range of research.

- The lung transplant program combines a team of AHN specialists with the Johns Hopkins lung transplant team to coordinate all of the necessary tests, exams and procedures for AHN patients.

- Patient First at Johns Hopkins Bayview Medical Center, Howard County General Hospital and Green Spring Station, and in Towson and Odenton – oversight through Johns Hopkins Technology Ventures in Johns Hopkins HealthCare, and managed and operated by Patient First.
Notable Research and Clinical Milestones
Notable Milestones

- First major medical school in the U.S. to admit women (1893)
- Popularized the use of rubber gloves during surgery
- Pioneered surgery for breast cancer (1889)
- First to develop renal dialysis (1912)
- Isolated and crystallized insulin (1926)
- Developed cardiopulmonary resuscitation–CPR (1958)
- Invented first implantable, rechargeable pacemaker for cardiac disorders (1972)
- Discovered restriction enzymes—“biochemical scissors”—that gave birth to genetic engineering
- Developed first and only effective treatment for sickle cell disease (1995)
- Pioneered exchange of kidneys among incompatible donors (2003-2009)
- An initial catalog of more than 80 percent of the proteins in the human body (the “proteome”) was unveiled as a resource for scientists in every biomedical field (2014)
- Johns Hopkins research spurred the signing of the HIV Organ Policy Equity (HOPE) Act, which lifted the ban on transplanting organs from people living with HIV (2013). Johns Hopkins performed the first such transplant in the U.S. in 2016.
Awards & Honors

22 current/former school of medicine scientists are Nobel laureates

29 members of the school of medicine’s current faculty have been elected to the National Academy of Sciences; 68 faculty members were elected to the National Academy of Medicine

10 school of medicine faculty members have received the Lasker Award (“American Nobel”)

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Four school of medicine faculty members/alumni have received the Presidential Medal of Freedom (Denton Cooley, Arnall Patz, Benjamin Carson and Donald Henderson)
2019 Nobel Prize in Physiology or Medicine
Gregg Semenza, M.D., Ph.D.,
C. Michael Armstrong Professor of Medicine, Johns Hopkins University School of Medicine

2009 Nobel Prize in Physiology or Medicine
Carol Greider, Ph.D.
Daniel Nathans Professor and Director of Molecular Biology and Genetics, Institute for Basic Biomedical Sciences

2003 Nobel Prize in Chemistry
Peter Agre, M.D.
Professor of Biological Chemistry, Director of the Johns Hopkins Malaria Institute

1978 Nobel Prize in Physiology or Medicine
Hamilton Smith, M.D.,
professor of microbiology, Johns Hopkins University School of Medicine

Daniel Nathans, M.D.,
professor of molecular biology and genetics, Johns Hopkins University School of Medicine
Awards & Honors

2015 Howland Medal in pediatrics: Catherine DeAngelis, M.D.

2007 National Physician of the Year Award for Clinical Excellence; 2007 King Faisal International Prize in Medicine: Patrick Walsh, M.D.

MacArthur “Genius Award” winners

Medical Education

XDBio is a graduate program at the Johns Hopkins University School of Medicine aimed at innovating graduate education in the biomedical sciences and facilitating interdisciplinary research training that bridges basic science and medicine.

XDBio students experience a flexible educational structure with a personalized curriculum guided by each student’s individual research interests, prior course work and future goals.

Watch a video about the Johns Hopkins XDBio graduate program in biomedical sciences.
Medical Education

Pioneered Genes to Society curriculum, which teaches an “individualized medicine” model based on genetic variability, interdisciplinary diagnostics and treatment, evidence-based care, health disparities and safety.

- The framework is based on the precepts of individuality and systems biology.
- Reframes the context of health and illness so that students consider all aspects impacting an individual’s health—social, cultural, psychological, environmental and genetic.
- The linchpin is Scientific Foundations of Medicine, taught in year one, with topics ranging from principles of protein structure to clinical research.
- First graduating class was in 2013.

Watch a video about our innovative medical education program.

Watch a video about our 125th Anniversary.
Analogous to precision medicine, precision education allows us to optimize learning in a similar fashion.

Precision education harnesses the power of information technology to provide learners with objective analysis of their progress and skills.

In this system, we use learner data to shape the curriculum so that students can progress at their own pace, receive individual remediation in areas that present a challenge and even learn in their preferred modality.

Learn more about personalized learning.
ANCC Magnet Recognition Program® Designation:  Magnet Recognition® is the highest and most prestigious credential a healthcare organization can receive for nursing excellence and quality patient outcomes. The Johns Hopkins Hospital received its initial four-year Magnet designation in 2003 and was redesignated in 2008, 2013 and 2018. Suburban Hospital and Johns Hopkins All Children’s Hospital achieved their first Magnet designations in 2019.

Strength of Shared Governance:  Robust nurse-led councils at all levels of the organization give nurses a platform to make their voices heard, and empowers them to shape their professional practice and patient care.

Nursing Inquiry:  Nurses are encouraged to pursue all forms of scholarly inquiry, including evidence-based practice, quality improvement and research, to guide practice changes and innovations in care.

Advanced Practice Nursing:  Across the Johns Hopkins Health System, advance practice nurses, such as nurse practitioners, clinical nurse specialists and nurse anesthetists, play pivotal, multi-faceted roles on the health care team. They serve as primary care providers, expert consultants for their fellow nurses, leaders in new models of care delivery and much more.

Global Reach:  Johns Hopkins nurses are part of medical rapid response teams, deployed across the country and abroad when disasters strike. They consult with international health care organizations to share expertise and best practices, and provide new knowledge and innovation to the world.

Watch a video of the Magnet Announcement at Johns Hopkins All Children’s Hospital.
Hopkins Armstrong Institute for Patient Safety

Reducing preventable harm, improving patient outcomes and experiences, and reducing waste in health care delivery at Johns Hopkins and around the world by:

- Advancing the science of patient safety and quality
- Building organizational capacity for improvement through training and supportive infrastructure
- Designing, implementing and evaluating interventions

Learn more about the Armstrong Institute.
Goal: Improve diagnosis, treatment and outcomes by further defining patient subgroups that respond differently to disease and treatment.

Precision Medicine Centers of Excellence partner with patients to advance knowledge.

The Johns Hopkins Precision Medicine Initiative includes 16 Precision Medicine Centers of Excellence, each focusing on a specific disease, and is now working to develop 50 Precision Medicine Centers in the next five years.

Watch a video to learn about our precision medicine effort. www.youtube.com/watch?v=Bk7MXZuFJuQ
Institute for Basic Biomedical Sciences

Combines the school of medicine’s nine basic science departments to foster research programs in emerging and promising fields.

Conducts over $100 million in fundamental research.

- Biological Chemistry
- Molecular and Comparative Pathobiology
- Biomedical Engineering
- Biophysics and Biophysical Chemistry
- Molecular Biology and Genetics
- Cell Biology
- Neuroscience
- Pharmacology and Molecular Sciences
- Physiology

Watch a video about our research to develop a liquid biopsy to detect and track cancer.
Interdisciplinary Technology Hubs

- High Throughput Biology Center (HiT Center)
- ChemCORE Facility
- Ross Flow Cytometry Core Facility
- Genetics Resources Core Facility
- Mass Spectrometry Laboratory
- Microarray Core Facility
- Microscope Core Facility
- NMR Spectroscopy and Imaging Facility
- Protein/Peptide Sequencing Facility
- Proteomics Facility
- Transgenic Core Facility
- Beckman Center for CryoEM
Institute for Cell Engineering

- Focuses on basic research to develop cell engineering therapies.
- Ongoing work includes emphasis on Parkinson's disease, ALS, cancer, diabetes, heart failure, stroke and spinal cord injury among many more.
Organized to integrate research and clinical care based on understanding of human heredity and genetic medicine, multigenic, widespread diseases.

Named for Victor A. McKusick and Daniel Nathans.
The university’s intellectual property administration center serves researchers and inventors as a licensing, patent and technology commercialization office.

- Startup venture capital raised: $525 million
- Licensing revenues: $73.5 million
- Total invention disclosures: 443
- Licenses and options: 116
- Active issued patents (U.S.): 915
- Newly created startup companies: 16

Note: above figures are for FY 2019

Watch a video about how JHTV supports startups at its innovation hubs.
Johns Hopkins Institute for NanoBioTechnology (INBT)

Brings together Johns Hopkins faculty and students using nanotechnology to generate new diagnostic and therapeutic tools, including biosensors and DNA nanoparticles.

Watch a video highlighting some of our research highlights from 2018.
Johns Hopkins Institute for Clinical and Translational Research (ICTR)

- **Goal:** To accelerate bench-to-bedside medical innovations and new translational treatments for patients.

- Supports the work of more than 100 faculty members from the schools of medicine, engineering, nursing and public health.

Watch a video to learn about our clinical trials program.
Diversity and Inclusion
“The hospital must care for “the indigent sick of this city and its environs, without regard to sex, age, or color, who may require surgical or medical treatment.”

— Mr. Johns Hopkins to Johns Hopkins Hospital trustees, 1873
Our Diverse Workforce

Race
- White: 54%
- Black or African-American: 29%
- Asian: 12%
- Not assigned: 3%
- Two or more races: 2%
- American Indian or Alaska Native: 1%
- Native Hawaiian or Other Pacific Islander: 1%

Gender
- Women: 73%
- Men: 27%

Ethnicity
- Not Hispanic or Latinx: 96%
- Hispanic or Latinx: 4%

Johns Hopkins Hospitals
Fiscal Year 2017

Visit the Johns Hopkins Medicine Office of Diversity, Inclusion and Health Equity.

Watch our "People Behind the Promise" video series profiling a few of our amazing staff members.
Community Benefit and Charity Care

FY 2018
COMMUNITY BENEFIT & CHARITY CARE TOTAL
$468,399,362

Johns Hopkins Health System
### HopkinsLocal Year Three Progress at a Glance

#### BUILD

- **23.5%**
  - of addressable construction spending, a total of $61.3 million, went to contractors that were minority-owned, women-owned, or disadvantaged business enterprises.

- **34**
  - small, local minority-owned, women-owned or disadvantaged construction businesses expanded their skills and connections through the BLocal BUILD College.

#### HIRE

- **381**
  - new hires for a set of targeted positions live in focus area Baltimore City ZIP codes, making up 45 percent of the hires in those categories.

- **145**
  - individuals with criminal records were hired at Johns Hopkins’ Baltimore City locations.

#### BUY

- **$29M**
  - spending in targeted categories with local businesses.

- **16**
  - development plans were created with nonlocal suppliers to increase those companies’ efforts to hire, procure or invest in Baltimore.

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All year three statistics are from FY 2018 — July 1, 2017, to June 30, 2018.
Community Engagement: Health Care

- **Johns Hopkins Adolescent Clinic**: Serves over 3,000 youngsters, ages 10 to 21.

- **Breast Care Initiative**: Offers free clinical breast exams and mammogram screenings.

- **JHCP East Baltimore Medical Center**: Serves over 19,000 patients.

- **Community Care-A-Van**: A free mobile medical unit provides primary care, immunizations, acute care, physicals and education.

- **The Access Partnership**: Improves access to effective, compassionate, evidence-based primary and specialty care for uninsured and underinsured patients. Since its inception in 2009, the program has provided medical services to more than 6,952 unique patients and processed 20,286 specialty referrals.

- **Center for Promoting Health/Salud and Opportunity for Latinos**: Enhances the health of Latinos in Baltimore.
Community Engagement: Outreach

- **Community of Caring Campaign:** Encourages staff involvement and provides support for revitalization and redevelopment initiatives.

- **INROADS Baltimore:** Offers summer internships and career development training for minority undergraduate students in business and allied health.

- **Johns Hopkins Injury Prevention and Community Outreach Collaborative:** Prevents violence through education and outreach.

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_Short video snippet:_

When her neighborhood playground fell into disrepair, Ede Taylor took on the project of reviving the spot as a place for kids to play and learn. A project coordinator with the Johns Hopkins Medicine Office of Community Health, Taylor is active in her northeast Baltimore neighborhood and led a huge team of volunteers to rebuild the Sinclair Lane Elementary School playground.

Watch all of our [#TimeForBaltimore](#) videos.
Community Engagement: Outreach

- **Urban Health Institute**: Improves collaboration between Johns Hopkins and the community in research, community projects, program planning and implementation.

- **East Baltimore Community Conversations**: Host regular community engagement meetings with residents and local leaders to discuss community needs and strategies to improve the health of residents and the East Baltimore community.

- **Medical Religious Partnership**: Builds stronger relationships with the faith community to improve access to medical care, provide educational programs, and address health care disparities.

- **Turnaround Tuesday**: Provides job readiness, training, barrier removal and access to employment opportunities to formerly incarcerated individuals and long-term unemployed residents.
Community Engagement: Education

- **PTECH at Dunbar:** Pathways in Technology Early College High, PTECH, is a school-to-industry pipeline for Baltimore students. Graduates of the program will earn high school diplomas and a two year postsecondary degree in STEM from an accredited community college. They will be first in line for skilled jobs upon graduation through partnerships with private sector participants.

- **Summer Jobs Program:** Offers paid internship to area students in either the Johns Hopkins Health System or The Johns Hopkins University.

- **Medical Education Resources Initiative for Teens (MERIT):** MERIT helps Baltimore teens prepare for medical careers. MERIT is now an independent nonprofit with over ninety 10th-12th graders in the program and 75 college alumni.

- **Johns Hopkins Adopt-a-Class/Career Day Program:** Introduces fourth graders at three local elementary schools to hospital careers while expanding their knowledge of career choices in general.

Guided by mentor Oliver Rogers, MERIT Scholar Savannah Tripp adjusts the pH level in material where cells are growing.

Watch a video to learn about our [Summer Jobs Program](#).
Community Engagement: Education
Elmer A. Henderson: A Johns Hopkins Partnership School

Opened in 2013, the K-8 school is operated by The Johns Hopkins School of Education, in partnership with Morgan State University’s School of Education and Urban Studies, and is viewed as a bedrock of East Baltimore’s ongoing revitalization.

Students and faculty from the Johns Hopkins University School of Nursing help oversee the health suite and work with families on issues related to health and nutrition.

Johns Hopkins Hospital employees Marlen and Keith Foster were thrilled when their son Kaden, 6, was accepted to the first new school built in East Baltimore in 20 years.
Community Engagement: Education

- **Dunbar High School Health Partnership**: Helps prepare students through school-to-career transition initiatives.

- **Food Re-Education** for Elementary School Health: An innovative nutrition education program available to elementary schools.

- **CARES**—Summer in the Lab: A program for undergraduate and high school interns who spend summer exploring different fields of research.

- Paid *internships* in allied health professions

- Summer *tutorial program* for elementary school students

- Full-tuition Johns Hopkins *scholarships* for Baltimore City Public Schools students

Read an article about the [2018 CARES program](#).
To learn more, please visit us at:

www.hopkinsmedicine.org