



# MEDICAL UNIVERSITY OF SOUTH CAROLINA



Changing what's possible

[muscd.edu](http://muscd.edu) | [muscd.edu/research](http://muscd.edu/research) | [muschealth.org](http://muschealth.org) | [musckids.org](http://musckids.org) | [hollingscancercenter.org](http://hollingscancercenter.org)



**David J. Cole, M.D., FACS**  
President, Medical University of South Carolina

## About MUSC

*The Medical University of South Carolina (MUSC) is South Carolina's only comprehensive academic health science center. Our purpose is to preserve and optimize human life in South Carolina through our vision to lead health innovation for the lives we touch. MUSC provides an interprofessional environment for learning, discovery and healing through our tripartite mission of education, research and patient care.*

The MUSC values of compassion, collaboration, respect, integrity and innovation are nurtured every day by people who believe in each other and in Charleston, South Carolina, and our global community.

Founded in 1824 as the first medical institution in the southern United States, MUSC's main campus is located on more than 50 acres in the city of Charleston. Since its founding, the university has awarded nearly 38,000 degrees and grown from a small medical school to an academic health science center comprised of a 700-bed referral and teaching hospital and six colleges with more than 1,700 faculty members who educate and train approximately 3,000 students and 760 residents annually.

As the largest non-federal employer in Charleston, the university and its affiliates have collective annual budgets exceeding \$2.6 billion, with an annual economic impact of more than \$3.8 billion and annual research funding in excess of \$250 million.

Chartered in 1966, the MUSC Foundation is an independent charitable education foundation dedicated to supporting MUSC and its tripartite mission. Over its more than 50 years, the foundation has fully leveraged its assets, now more than \$600 million, to invest, manage, and disperse private resources that help meet priority but unfunded university initiatives.

## Economic Impact



Total employment impact



Total labor income impact



Total economic impact

- › With more than 14,000 team members, MUSC is the largest non-federal employer in Charleston.
- › Nearly 20,000 of more than 31,000 MUSC alumni continue to live in and contribute to the Palmetto State.
- › MUSC accounts for 12 percent of the Charleston area economy, being directly or indirectly responsible for 1 in every 12 jobs.
- › MUSC Health providers deliver top-quality care through more than one million patient encounters every year.

**David J. Cole, M.D., FACS**  
President, Medical University of South Carolina



**Kate Azizi**  
Vice President for Institutional Advancement



**Kathleen Brady, M.D., Ph.D.**  
Vice President for Research



**Willette Burnham-Williams, Ph.D.**  
Chief Diversity Officer, University



**Patrick J. Cawley, M.D., MHM, FACHE**  
Chief Executive Officer, MUSC Health and  
Vice President for Health Affairs, University



**Sheila Champlin, MA**  
Chief Communications and Marketing Officer



**Annette R. Drachman, MHA, J.D.**  
General Counsel



**Anton J. Gunn, MSW**  
Chief Diversity Officer and Executive Director of  
Community Health Innovation, MUSC Health



**Eugene S. Hong, M.D.**  
Chief Physician Executive,  
MUSC Health and MUSC Physicians



**Mark McMath**  
Enterprise Chief Information Officer  
for Information Solutions



**Lisa P. Montgomery, MHA**  
Executive Vice President, Finance and Operations



**Lisa K. Saladin, PT, Ph.D.**  
Executive Vice President for Academic Affairs  
and Provost



# SIX COLLEGES – ONE UNIVERSITY

**Sarandeep Huja, D.D.S., Ph.D.**  
Dean, James B. Edwards College of Dental Medicine



**Paula Traktman, Ph.D.**  
Dean, College of Graduate Studies



**Zoher Kapasi, PT, Ph.D., MBA**  
Dean, College of Health Professions



**Raymond N. DuBois, M.D., Ph.D.**  
Dean, College of Medicine



**Linda S. Weglicki, Ph.D., RN**  
Dean, College of Nursing

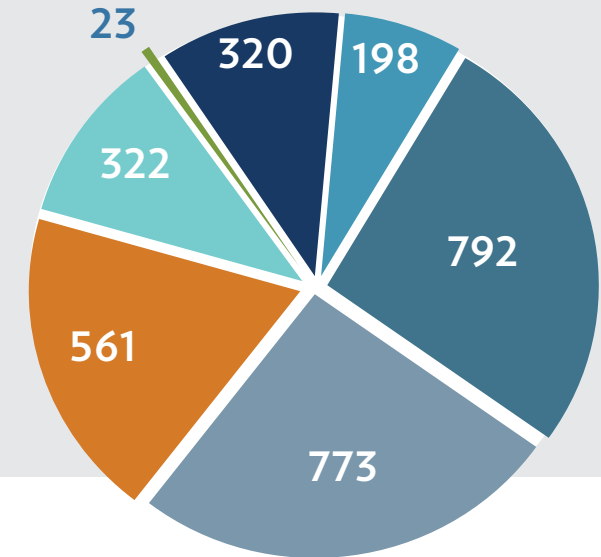


**Philip Hall, Pharm.D.**  
Dean, College of Pharmacy



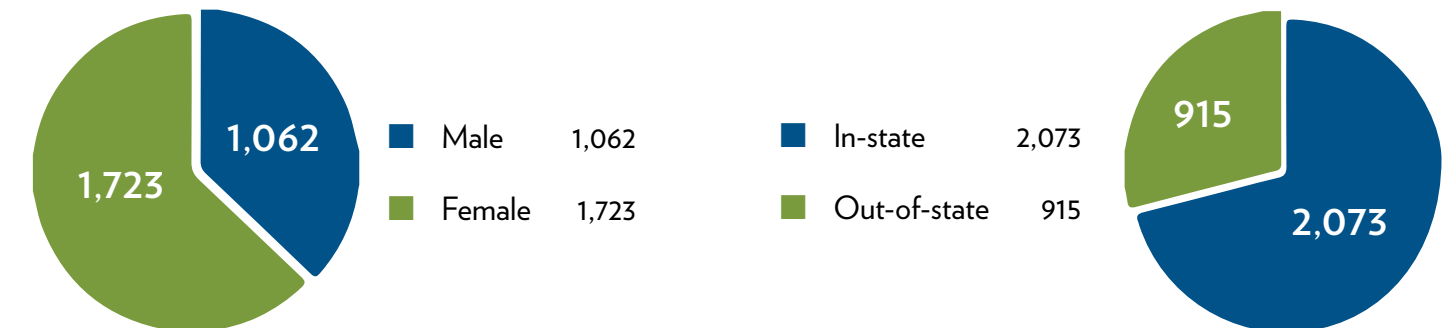
## Enrollment by College

College of Dental Medicine	320
College of Graduate Studies	198
College of Health Professions	792
College of Medicine	773
College of Nursing	561
College of Pharmacy	322
Non-degree	23
<b>TOTAL STUDENTS</b>	<b>2,989</b>



In 2017, MUSC graduated more students than ever before in our history. Counting all MUSC graduates from June 1, 2016 through May 20, 2017, 1,027 students earned MUSC health care degrees. Ninety-seven percent of those students agree they received a high-quality education. The Medical University of South Carolina is home to six colleges, nearly 3,000 students, 750 residents and a diverse student body, staff and faculty. The colleges of Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing and Pharmacy comprise the education arm of MUSC. Students earn degrees at the baccalaureate, master's, doctoral and other professional levels.

## Student Demographics



## James B. Edwards College of Dental Medicine

- › Founded in 1967, the James B. Edwards College of Dental Medicine is the state's only college of dental medicine. With more than 2,275 alumni, it offers one of the most respected programs of its kind in the country. Students are educated and trained in oral health sciences, oral rehabilitation, oral and maxillofacial surgery, pediatric dentistry, orthodontics and stomatology.
- › Graduate residency programs are offered in Endodontics, General Dentistry, Orthodontics, Oral Surgery, Pediatric Dentistry and Periodontics.
- › Ranked among the top 20 dental colleges in the nation for research funding, the college enables students to participate in training and clinical programs in collaboration with health care partners throughout the state and provide care in seven outreach clinics across South Carolina.



applications submitted **1,200**  
students accepted **75**



**65,576**  
College of Dental Medicine annual clinical care visits



**9,410**  
applications processed



**\$114 M**  
financial aid awards to MUSC students



**1,260** full-time faculty members  
**439** part-time faculty members



**750**  
residency training for more than 750 graduate health professionals



**17,000+**  
hours of student volunteer service to local organizations



**65%**  
of all living alumni remain in-state and contribute to the state's economy

## College of Graduate Studies

- › Founded in 1965, the College of Graduate Studies educates highly sought-after biomedical and behavioral scientists at master's, doctoral and postdoctoral levels.
- › Students are exposed to innovative research through a number of collaborative programs including a Master's of Science or Doctor of Philosophy degrees in the biomedical sciences, an NIH-funded M.D./Ph.D. program with the College of Medicine, a D.M.D./Ph.D. program with the College of Dental Medicine and a Pharm.D./Ph.D. program with the College of Pharmacy. Other initiatives include:
  - The Summer Undergraduate Research Program that hosts undergraduate students from institutions across the country.
  - Research opportunities for students underrepresented in the sciences such as the NIH-funded Post-baccalaureate Research Education Program.
  - An NIH-funded initiative for maximizing student development.



1,684

College of Graduate Studies alumni employing advanced degrees as leaders in academia, government and research

## College of Health Professions

- › Founded in 1966, the College of Health Professions offers a wide range of health professions educational programs both in residential and online/hybrid formats. They offer clinical, administrative/health care leadership and research-based programs.
- › The following educational programs are highly ranked by *U.S. News & World Report*: Master in Health Administration is 17th, Occupational Therapy is 17th, Physical Therapy is 27th, Nurse Anesthesia is 29th.
- › Ranked 8th in NIH funding among 65 colleges of health professions.
- › The college's 50th anniversary fundraising campaign (July 2015 through December 2017) raised \$3,631,139, surpassing its goal of \$3.5 million.



21%

underrepresented minority students comprised 21 percent of new students in 2017, up from 10.8 percent five years ago.

## College of Medicine

- › Founded in 1824, the College of Medicine was the first medical school in the southern U.S. and the 10th medical school in the nation. It is the largest medical school in the state, educating and training the majority of its physicians.
- › Awarded more than \$248.5 million through more than 1,050 awards for extramural research funding in FY 2018, which included an 11 percent increase in NIH funding.
- › In FY2018, the COM ranked 43rd in the U.S. and 23rd among public institutions for NIH funding.



735

College of Medicine residents & fellows

- › The college's clinical faculty members support MUSC's clinical operations through MUSC Health. Through 18 clinical departments, faculty members and other clinical staff provide inpatient and outpatient care at MUSC's main campus and satellite locations.
- › A national leader on many fronts, the college boasts a diverse student body – 19 percent diversity versus the 15 percent national average. The American Association of Medical Colleges ranks the college in the 96th percentile for medical schools with the most African-American graduates.
- › 14 percent of all residents and fellows in the college are considered underrepresented in medicine, the largest number in the college's history.
- › The college offers an innovative new FLEX curriculum that allows medical students to pursue a variety of paths based on their career goals and interests. It is 1 of 15 medical schools in the country with an accelerated three-year medical school program.
- › The college has more than 7,300 alumni throughout the state, country and beyond.

## College of Nursing

- › The College of Nursing offers baccalaureate, master's and doctoral degrees and matriculates more DNP and Ph.D. students than any other nursing school in the state.
- › Roughly 53 percent of students received their education and training entirely through its academically and technologically advanced online programs in 2018.
- › *U.S. News & World Report* has ranked the online graduate nursing program as one of the country's top three schools for the past five years. The school also ranks 13th in NIH funding among colleges of nursing across the country, the third highest in the Southeast.



732

medical students



96%

residency match rate for COM students 2016 - 2018



570

The College of Nursing educates more than 570 students each year.

## College of Pharmacy

- › Founded in 1881, the College of Pharmacy is home to two research centers with renowned endowed chairs. MUSC College of Pharmacy boasts one of the oldest and largest residency programs in the country, having trained approximately 360 residents during its long history.
- › The college provides a premier pharmacy education by uniting nationally recognized faculty and high-achieving students with innovative interprofessional learning opportunities offered at MUSC's academic medical center.



3,403

pharmacists trained by the College of Pharmacy

# MUSC HEALTH



## MUSC Health

MUSC Health, the clinical enterprise of the Medical University of South Carolina (MUSC), is dedicated to the pursuit of changing what's possible in health care.

The innovations and leadership of this integrated health care system are evident not only in the four hospitals on the downtown Charleston Medical Center campus but shared through more than 100 outreach locations, formal clinical affiliations with other hospitals and health systems across South Carolina and a robust telehealth network.

The MUSC Medical Center is South Carolina's #1 and most preferred hospital as ranked by *U.S. News & World Report* on its Best Hospitals 2018-2019 list and the National Research Corporation, respectively.

### 26,000

Annual Surgical Cases

### 40,000

Annual Patient Admissions

### 80,000

Annual Emergency Room Visits

### 45%

Patients from Outside Tri-county Area

Average Daily Census

### 700

Inpatients

## 1.4 Million

Annual Outpatient Visits

### 900+

Attending Physicians

## MUSC Children's Health

- › MUSC Children's Health is South Carolina's most comprehensive system of preventive and clinical care devoted exclusively to the well-being of children.
- › The system delivers the most advanced evidence-based pediatric health services from fetal stage through the teen years. Six pediatric specialties – cardiology & heart surgery, cancer, nephrology, urology, gastroenterology & GI surgery and orthopaedics – are ranked in the top 50 in the country by *U.S. News & World Report* for 2018-2019.
- › The state's only nationally recognized children's hospital is located on the MUSC campus in downtown Charleston. MUSC Children's Health is expanding access to specialized pediatric care through a growing network of outreach locations across the state, including a new ambulatory campus in North Charleston, Murrells Inlet and Beaufort, as well as through the South Carolina Telehealth Alliance.
- › A new MUSC Children's Health ambulatory campus in North Charleston will include outpatient surgery, pediatric specialty clinics, after-hours care, imaging and infusion. This facility is scheduled to open in early 2019.
- › In August 2016, ground was broken on the new MUSC Shawn Jenkins Children's Hospital and Pearl Tourville Women's Pavilion located on peninsular Charleston. This \$400 million facility is scheduled to open in the fall of 2019.

## MUSC Hollings Cancer Center (HCC)

- › HCC is one of 70 National Cancer Institute-designated cancer centers and the largest academic-based cancer research program in South Carolina.
- › HCC is comprised of more than 100 faculty cancer scientists with an annual research funding portfolio of more than \$42 million and a dedication to reducing the cancer burden in our state and beyond.
- › An interprofessional team of more than 60 cancer specialists works together to deliver the highest level of care, offering state-of-the-art diagnostic capabilities, surgical techniques and therapies, including more than 200 clinical trials.
- › This nationally-ranked cancer program is expanding its reach across the state through cancer prevention and screening initiatives, outreach and education programs and a growing list of cancer care locations and community partnerships
- › Part of MUSC Health, HCC ranks in the top 25 for cancer care in the nation and has four high-performing cancer-related specialties and treatments: neurology & neurosurgery, urology, lung cancer surgery and colon cancer surgery.

## MUSC Neurosciences

- › MUSC Neuroscience ranks first in the Southeast and second in the country in National Institutes of Health neuroscience research funding. The department places researchers and clinicians at each other's sides in an effort to realize the clinical promise of cutting-edge research.
- › As a consistent leader in neuroscience advances, MUSC is the first Joint Commission Certified Comprehensive Stroke Center in South Carolina; has a dedicated Neurosciences Intensive Care Unit; is the only Parkinson's Foundation Center of Excellence in South Carolina; and is the first Level 4 Epilepsy Center in South Carolina, the highest designation given by the National Association of Epilepsy Centers.

## MUSC Heart and Vascular Center (HVC)

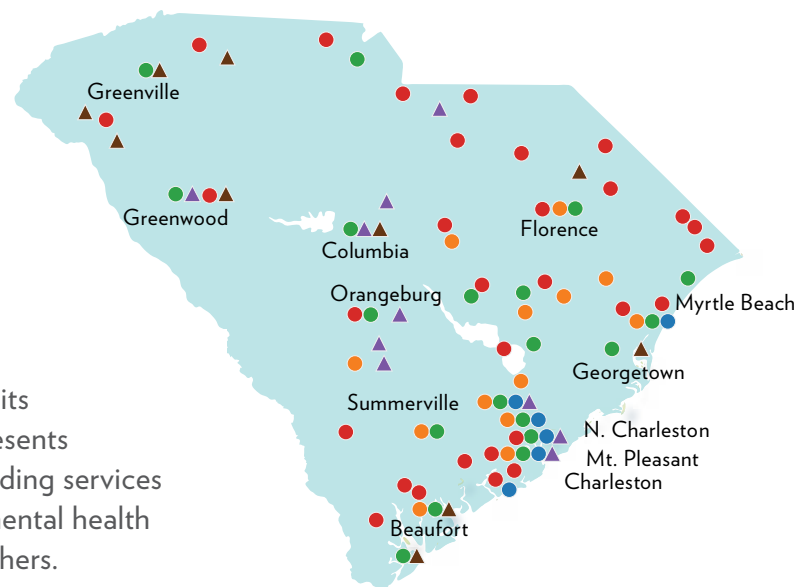
- › MUSC Heart and Vascular Center offers more heart disease treatment options than any other hospital in South Carolina.
- › HVC cardiologists and heart surgeons provide the highest level of specialization for all types of heart problems, including heart failure, heart valve problems, arrhythmias and interventional and surgical procedures. They also treat complex cases – often referred from other area hospitals – with lower rates of complications and readmissions than national averages.
- › As South Carolina’s only medical research and training institution, MUSC offers more than 50 clinical trials of new drugs, devices and approaches to heart disease.
- › As a trusted partner of international device makers in testing new devices, MUSC pioneers more devices than any other heart center in South Carolina.

## MUSC Health Center for Telehealth

- › MUSC Center for Telehealth has been the leader in offering telehealth services in South Carolina, offering patients increased access to quality medical services – regardless of where they live – through technological advances and initiatives.
- › The Center is a National Telehealth Center of Excellence, one of only two in the nation.
- › Beginning with the Telestroke program over a decade ago, now more than 96 percent of the South Carolina population is within a 60-minute drive of expert stroke care from MUSC and its partners. This Telestroke network represents approximately 220 distinct sites, expanding services that include teleICU, maternal-fetal, mental health and school-based programs, among others.

### Service Delivery

- Primary Care
- Specialty Care
- School-based
- Telemedicine
- ▲ Research Affiliate
- ▲ Research Partner



### PROVIDING CARE ACROSS THE STATE

MUSC’s clinical outreach allows us to serve the citizens of our state, no matter where they are. From primary and specialty care to doctor’s visits in schools via telemedicine, with numerous clinical and research affiliations across the region, we are leading health innovation for the lives we touch.

## MUSC RESEARCH

MUSC leads the state in biomedical research funding with a record \$276.5+ million in extramural grant funding, with some \$125.4+ million in grant funding from the National Institutes of Health (NIH). The Medical University is home to one of only 62 Clinical and Translational Science Award (CTSA) hubs in the nation and the state’s only NCI-designated cancer center.

The CTSA program supports the university’s ability to translate scientific discovery into innovative and beneficial health care treatments, medicines and devices and is a catalyst in reshaping biomedical research in South Carolina. Key areas of research at MUSC include cancer, addiction sciences, drug discovery, health disparities, inflammation and fibrosis, neuroscience, oral health, rehabilitation and stroke.



300+  
domestic and  
international patents



1,230  
extramurally funded grants

## Recent Research Highlights

- › MUSC Health Movement Disorders Program was named a Parkinson’s Foundation Center of Excellence, joining 45 other medical centers worldwide, including 31 in the United States.
- › MUSC is leading the pilot in conjunction with South Carolina’s Department of Alcohol and Other Drug Abuse Services (DAODAS) that connects patients with opioid addiction to immediate treatment in the emergency department. The pilot is proving remarkably successful, changing the lives of patients and their families, as well as empowering emergency department staff to address the opioid epidemic.
- › Medical University of South Carolina neuroscientists and imaging researchers have been awarded a grant from the National Institutes of Health, totaling more than \$7 million, to help predict an individuals’ risk for Alzheimer’s disease.
- › MUSC’s National Crime Victims Research & Treatment Center recently won an \$18 million federal grant through the Department of Justice to establish the first Mass Violence and Victimization Resource Center.
- › MUSC’s Division of Rheumatology was awarded a comprehensive clinical center of research infrastructure grant from the National Institutes of Health for \$750,000 a year for five years, one of only three such centers in the country. This grant supports studies to determine why African-Americans have more prevalent and severe lupus and scleroderma than other ethnicities.
- › A team of researchers from 10 universities across the state, including some from MUSC, has received a \$20 million five-year grant from the National Science Foundation’s Established Program to Stimulate Competitive Research (EPSCoR). The money will help organize a new initiative: Materials Assembly and Design Excellence in South Carolina, or MADE in S.C.
- › Hollings Cancer Center scientists designed a clinical trial that has shown groundbreaking results in treating lung cancer. Study results indicate a novel immunotherapy combination is surprisingly effective at controlling the disease’s progression. The study, published April 4 in the *Lancet Oncology*, focused on non-small cell lung cancer, which is the most common form of the disease.

# The Medical University of South Carolina

## ABOUT THE MEDICAL UNIVERSITY OF SOUTH CAROLINA (MUSC)

Founded in 1824 in Charleston, MUSC is the oldest medical school in the South, as well as the state's only integrated, academic health sciences center with a unique charge to serve the state through education, research and patient care. Each year, MUSC educates and trains more than 3,000 students and 700 residents in six colleges: Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing and Pharmacy. The state's leader in obtaining biomedical research funds, in fiscal year 2018, MUSC set a new high, bringing in more than \$276.5 million.

As the clinical health system of the Medical University of South Carolina, MUSC Health is dedicated to delivering the highest quality patient care available, while training generations of competent, compassionate health care providers to serve the people of South Carolina and beyond. Comprising some 1,600 beds, more than 100 outreach sites, the MUSC College of Medicine, the physicians' practice plan, and nearly 275 telehealth locations, MUSC Health owns and operates eight hospitals situated in Charleston, Chester, Florence, Lancaster and Marion counties. In 2018, for the fourth consecutive year, U.S. News & World Report named MUSC Health the number one hospital in South Carolina. To learn more about clinical patient services, visit <http://muschealth.org>.

MUSC and its affiliates have collective annual budgets of \$3 billion. The more than 17,000 MUSC team members include world-class faculty, physicians, specialty providers and scientists who deliver groundbreaking education, research, technology and patient care. For information on academic programs, visit [musc.edu](http://musc.edu).

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