

Founded in 1824 as the first school of medicine in the southeastern U.S., [the Medical University of South Carolina \(MUSC\)](#) is now the core of the state's largest medical complex as well as the largest employer in the metropolitan Charleston area with nearly 10,000 employees. A freestanding academic health center, MUSC is the only tertiary/quaternary care referral center in South Carolina for a statewide population of an estimated 4.5 million people.

Organization

MUSC is comprised of seven major organizational components:

- [College of Nursing](#) [College of Graduate Studies](#)
- [College of Medicine](#) [College of Health Professions](#)
- [College of Pharmacy](#) [College of Dental Medicine](#)
- [MUSC Medical Center](#)

MUSC is a state-assisted institution, receiving less than 8% of its total annual budget from the State of South Carolina.

Research

In fiscal year 2006, MUSC faculty received 1,063 extramural awards totaling \$193.4 million. Federal funding constitutes about 74% of extramural support, with the National Institutes of Health (NIH) as the primary funding agency (~\$93.4 million in FY07).

Endowed Chairs

Endowed research professorships are supported by a statewide initiative launched by the South Carolina General Assembly in 2002 with passage of the [South Carolina Research Centers of Economic Excellence Act \(COEE\)](#). This legislation identified \$200 million in state funds to be provided over 7 years, matched dollar-for-dollar with non-state funds, to recruit new research expertise to the three state research universities. To date, this has resulted in establishing 14 COEE research professorships at MUSC, bringing the total of all endowed chairs and named professorships to 68.

Core Facilities

- Flow Cytometry Core
- Gel Proteomics
- Mass Spectrometry
- Monoclonal Antibody
- Nucleic Acid Analysis
- Research Machine Shop
- Transgenic Mouse Core
- X-ray Crystallography
- Proteogenomics
- Gene Targeting and Knockout Mouse
- Nuclear Magnetic Resonance
- Gnotobiotic Research Resource
- Biomolecular Computing Resource
- Collaborative Biometry URRF Core
- Multidisciplinary Advanced Image Analysis

The Foundation for Research Development

The [MUSC Foundation for Research Development \(FRD\)](#) is an affiliated, not-for-profit, 501(c)(3) corporation, established in 1995 to manage technology transfer and private sector research relationships for MUSC. The cumulative MUSC metrics from 2004 – 2006 are:

<i>Research Expenditure</i>	<i>\$436 million</i>
<i>Adjusted Gross License Income</i>	<i>\$2.3 million</i>
<i>Invention Disclosures</i>	<i>139</i>
<i>New U.S. Patent Applications</i>	<i>57</i>
<i>Issued U.S. Patents</i>	<i>15</i>
<i>Licenses & Options Executed</i>	<i>16</i>
<i>Start-up Companies Formed</i>	<i>3</i>

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