

News Release

FOR IMMEDIATE RELEASE

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Clemson University and Hitachi Healthcare: Inspiring future leaders

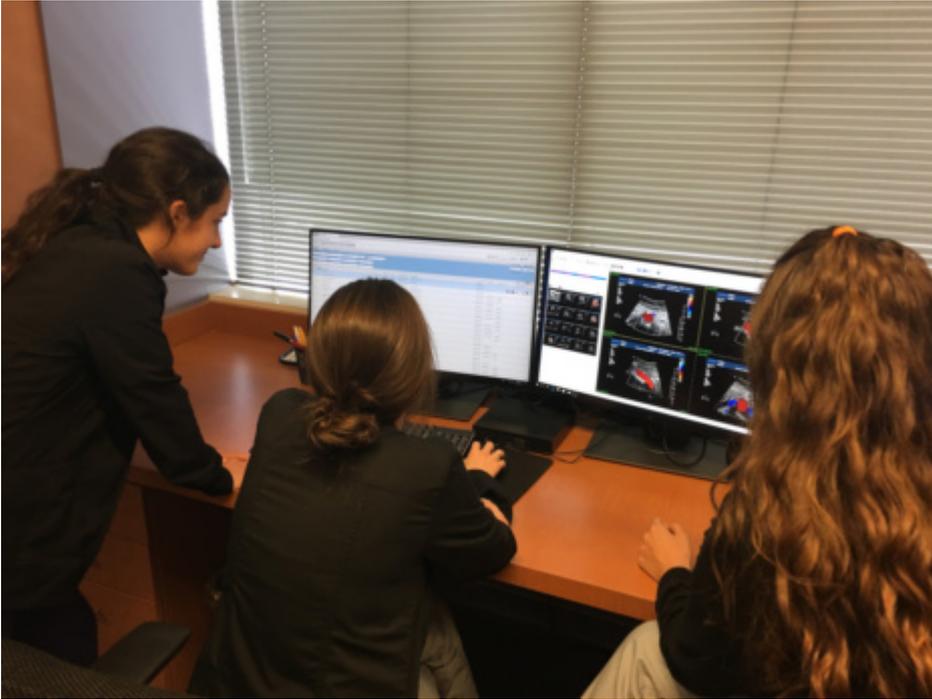
Hitachi partners with Clemson to provide students with real world experience

Twinsburg, OH November 25, 2019 — Cardiovascular disease is the number one cause of death. It accounts for 31 percent of deaths globally¹ and for more than \$351 billion in health expenditures, costs which are expected to increase by 100 percent by 2035. More than ever, there is a growing need for a highly trained workforce that can play a critical role in reducing these alarming statistics. Clemson University and Hitachi Healthcare Americas are answering this call. The two have joined forces to accelerate innovation in cardiovascular imaging to help students reach their full potential.

Technical training for quality care

Early detection and diagnosis through regular appointments and the use of technology, like cardiovascular sonography, is critical to reducing cardiovascular related deaths and improving the quality of life for millions of people worldwide. And with an aging baby boomer population, cardiovascular sonographers are in high demand. The current health care market employs approximately 130,000 sonographers and is expected to experience a growth rate of 14 percent (18,000 jobs)³ between 2018 and 2028.

Providing students with real world experience, and access to state-of-the-art facilities and technology are critical priorities for preparing the talent pipeline.



Clemson public health sciences students use Hitachi's VidiStar software.

Since 2011, Clemson's Department of Public Health Sciences has offered the Cardiovascular Imaging Leadership Concentration in collaboration with the Health Sciences Center at Prisma Health. Through this program, the University has been instrumental in preparing students to enter the workforce by offering technical training in noninvasive vascular testing and adult echocardiography.

Now, through Hitachi and Clemson's most recent collaboration, Clemson's CVT students will have the chance to use Hitachi's software further preparing them to enter the health care industry. Hitachi is also establishing the Hitachi Healthcare Outreach and Professional Development Fund, which will support faculty and students for programming and outreach efforts across South Carolina.

Students will have access to VidiStar PACS Online Reporting software Platform, Hitachi's DICOM viewer, echo viewer and report modules and vascular reports. Hitachi is also providing staff to train students on use in a clinical setting.

Software for the cardiovascular sonography machines use soundwaves (ultrasound) to create a moving image of the heart. Combined with Doppler ultrasound, physicians can see areas of poor blood supply to the heart in patients with conditions, like:

- myocardial infarction-MI
- coronary artery disease (CAD)
- valvular heart disease
- deep vein thrombosis-DVT
- peripheral arterial disease (PAD)

And the non-invasive² procedure allows medical professionals to:

- Assess overall function of the heart
- Determine the presence of many types of heart disease
- Follow the progression of heart disease over time
- Evaluate the effectiveness of medical or surgical treatment

Sonographers are also tasked with providing notes and feedback to physicians when they're unavailable, increasing the importance of sonographers' role on patient health and outcomes.

Hitachi Healthcare America's value-based structured reports leverage a cloud-based image management and analytics platform, helping customers successfully deploy and adopt technology across complex and diverse organizations, apply advanced analytics and data mine to their valuable patient data.

The reporting software being provided by Hitachi will further strengthen the skillset of CVT graduates, ensuring they are prepared to execute the necessary reports.

Working together

This is not the first venture between Clemson and Hitachi⁴. Hitachi High Technologies has long partnered with the Electron Microscopy Facility providing cutting edge microscopes and supporting the Hitachi High Technologies Graduate Fellowship to further the depth and breadth of advanced research and development being done at Clemson.

Hitachi and Clemson's most recent partnership will accelerate innovation through an in-depth understanding of issues facing healthcare through the eyes of its students. The next generation of ideas and improvements will benefit Hitachi's product development, Clemson's students and patients everywhere.

Together, Clemson and Hitachi are innovating health care, and embracing the future.

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Clemson University

Clemson University is a major, land-grant, science- and engineering-oriented research university in South Carolina that maintains a strong commitment to teaching and student success. Ranked No. 23 among national public universities, Clemson is an inclusive, student-centered community characterized by high academic standards, a culture of collaboration, school spirit, and a competitive drive to excel. Founded in 1889, Clemson remains committed both to world-class research and a high quality of life. The campus sits on 1,400 acres in the foothills of the Blue Ridge Mountains, along the shores of Hartwell Lake and has research facilities and economic development hubs throughout the state of South Carolina — in Greenville, Greenwood, Anderson, Columbia and Charleston. The research, outreach

and entrepreneurial projects led by the faculty and students are driving economic development and improving quality of life in South Carolina and beyond.

HITACHI HEALTHCARE AMERICAS

Hitachi Healthcare Americas, located in Twinsburg, Ohio, a wholly owned subsidiary of Hitachi Healthcare Business Unit, offers a broad range of diagnostic imaging equipment including MRI, CT and Ultrasound. Hitachi's MRI, CT and Ultrasound technologies provide speed, comfort and quality for both physicians and patients alike and play an important role in the diagnosis and treatment of disease while driving social innovation into healthcare.

Visit www.hitachihealthcare.com.

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Hitachi, Ltd. (TSE: 6501), headquartered in Tokyo, Japan, delivers innovations that answer society's challenges. The company's consolidated revenues for fiscal 2016 (ended March 31, 2017) totaled 9,162.2 billion yen (\$81.8 billion). The Hitachi Group is a global leader in the Social Innovation Business, and it has approximately 304,000 employees worldwide. Through collaborative creation, Hitachi is providing solutions to customers in a broad range of sectors, including Power / Energy, Industry / Distribution / Water, Urban Development, and Finance / Government & Public / Healthcare. For more information on Hitachi, please visit the company's website at www.hitachi.com.

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