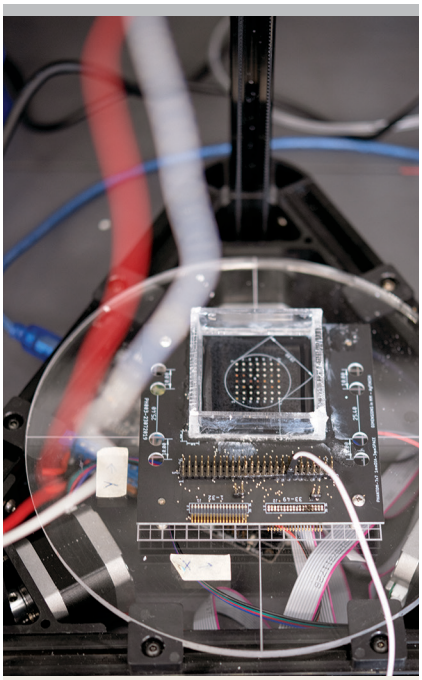
MAKE
POSSIBLE

THE CAMPAIGN FOR
CARNEGIE MELLON UNIVERSITY

RESEARCH OF THE FUTURE

SUPPORTING SCIENTISTS SOLVING REAL-WORLD PROBLEMS WITH CREATIVITY AND COLLABORATION



"The **SCIENTIFIC RESEARCH** of the future will be fueled by automation, machine learning and data science. This will be the research that makes the biggest impact."

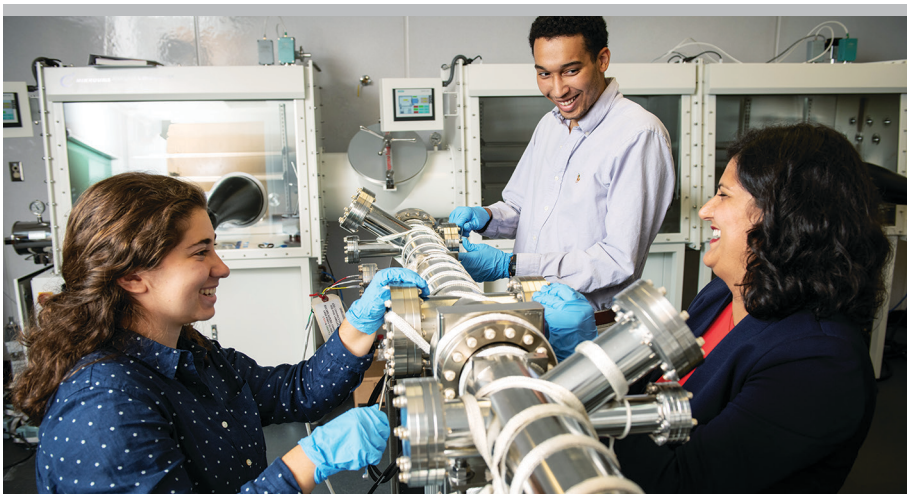
— Rebecca Doerge,
Glen de Vries Dean,
Mellon College of Science

The science needed to solve the problems of our rapidly changing world will spring from the ideas and talents of people from many backgrounds and skill sets. Discovery occurs when diverse perspectives come together to ask the right questions and answer them in new and innovative ways. Research now and in the future requires deep disciplinary knowledge that is not constrained within silos.

Through the future of science initiative, Carnegie Mellon is making strategic investments in the evolution of scientific research. The research of the future will involve powerful cross-disciplinary teams working in spaces where CMU is a leader and will focus on emerging areas ripe for world-changing breakthroughs.

As we accelerate our vision of what the future of science will be, we need to recruit and retain the best faculty and student researchers working in diverse, but complementary fields, and provide them with the tools and research they need to do their very best work.

With your support, we will answer problems of worldwide consequence and revolutionize science for the future through expansive collaboration and innovation.



YOUR SUPPORT WILL LEAD TO A

BETTER WORLD

When dedicated people from diverse fields and perspectives work together and bring their expertise in foundational science, technology, computation, artificial intelligence and data analytics to bear on a problem, they can solve things that were previously thought to be unsolvable.

You can support cross-disciplinary faculty and student researchers through professorships, fellowships, scholarships, research funds, resources for recruitment and retention, and seed funding as they pursue work that will lead to breakthroughs, fundamentally advance science and address emerging real-world problems.

- **Endowed professorships** enable us to recruit and recognize faculty who are at the top of their fields and support their work at CMU.
- **Fellowships** allow us to recruit and support talented postdoctoral researchers and graduate students who bring new ideas and perspectives to CMU's research.
- **Scholarships** allow us to attract the world's top students who will become part of the CMU community, learn from our faculty and contribute to our labs.
- **Breakthrough funds** and other research funds allow us to fund high-risk, high-reward proof-of-concept research projects, readying them for federal and foundation funding and leading to new breakthroughs.
- **Undergraduate research funds** offer students the opportunity to pursue their own lines of creative inquiry while enhancing and diversifying the MCS classroom experience.

LIMITLESS POTENTIAL FOR IMPACT

The research of the future will advance the foundational sciences through the application of artificial intelligence, computation, technology and data science. A sampling of interdisciplinary areas where Carnegie Mellon excels includes:

NEUROSCIENCE

LIFE SCIENCES

QUANTUM INFORMATION

SUSTAINABILITY SCIENCE

COMPUTATIONAL FINANCE

MATERIALS OF THE FUTURE

COSMOLOGY

MATHEMATICAL FOUNDATIONS OF AI

Carnegie Mellon University

5000 Forbes Avenue
Pittsburgh, PA 15213
makepossible.cmu.edu/future-of-science

Contact information: **Nancy Felix**
Associate Dean for Advancement,
Mellon College of Science
412-268-6442 or nfelix@andrew.cmu.edu

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