HARVEY MUDD is on a mission

THE CAMPAIGN FOR HARVEY MUDD COLLEGE
We're educating passionate problem solvers.

HARVEY MUDD COLLEGE opened its doors five years after the first hydrogen bomb test and just before the Sputnik I launch. At the time, many people marveled at the rapid-fire pursuit of technology, but they also wondered if these changes truly were improving the human condition. As the Cold War escalated and the space race began, people worried that with the press of a button, one government could annihilate all of humanity. In a time when technology made these things possible, what was next? Toward what brave new world were we moving?

Our founders recognized a need for a new type of leader. They committed to educating a new generation of scientists, engineers and mathematicians who understood the impact of their work on society. They wanted to develop graduates who could lead in troubling times—graduates who believed technology divorced from humanity was worse than no technology at all.

Today, we operate in volatile and uncertain times with complex dynamics—technology continues to accelerate, creating new industries and disrupting the old—and communications networks advance at astonishing speeds. We also face local and global issues that require broader, more interdisciplinary perspectives: sustainability and energy, population growth, health, hunger and economic uncertainty.

What these challenges require are people who are grounded in multiple STEM disciplines yet who have a strong foundation in humanistic inquiry. Nimble leaders—compelled by their passions—who can create cultures of constructive skepticism and surround themselves with differing perspectives. Leaders who first understand the many complex sides of an issue before offering solutions.

Harvey Mudd recruits some of the world’s brightest young minds and inspires them to dream bigger. We teach and nurture them. We push, challenge and focus them. We help them understand that the relationships forged among the different disciplines are just as important as those forged among different people. These are all required components to solving today’s greatest challenges.

After four years, our students emerge from this crucible as passionate problem solvers, ready to change the world for the better, in whatever field they choose.

In fewer than 60 years, we have evolved from an inspired idea to the leader in producing thoughtful, responsible scientists, engineers and mathematicians. Our graduates are our proof. When you think of the many challenges facing society today, it is clear: The world needs Harvey Mudd.

And now, more than ever, Harvey Mudd needs you.

Maria Klawe
President, Harvey Mudd College

With his great vision and incredible energy, Founding President Joseph Platt took the helm of Harvey Mudd College in 1956. He led the College through two decades of growth to national acclaim as a premier science, engineering and mathematics college. Joe also developed the mission for Harvey Mudd that we still embrace today.

I count it a privilege and honor to have been appointed the fifth president of Harvey Mudd in 2006. My tenure began with the community discussions and collaboration that created "HMC 2020: Envisioning the Future," an ambitious outline of the College's aspirations that comprises six themes:

• Innovation, Leadership and Impact
• Experiential and Interdisciplinary Learning
• Unsurpassed Excellence and Diversity
• Nurturing and Developing the Whole Person
• Global Engagement and Informed Contributions to Society
• Infrastructure Improvement to Support Excellence and Build Community

As a community, Harvey Mudd is on a mission. We’ve made great progress toward achieving our goals. But there is still much to do if we are to realize the vision we established together in 2006. Through The Campaign for Harvey Mudd College, we seek to fund the people, programs and places that will allow us to realize our vision and continue our mission to ensure that a steady stream of passionate problem solvers is available to address the most pressing issues of our time.

You will learn more about what makes this College unique, as well as how your personal investment in Harvey Mudd College can help change lives for the better. Help us honor the legacy of the College’s founders by ensuring a strong future.

Maria Klawe
President, Harvey Mudd College

Harvey Mudd College seeks to educate engineers, scientists and mathematicians well versed in all of these areas and in the humanities and social sciences so that they may assume leadership in their fields with a clear understanding of the impact of their work on society.

HARVEY MUDD COLLEGE

The HMC community has come together to examine all that we do in view of the challenges and changes in the world today. We are committed to maintaining our role as an educational innovator, our intimate, supportive and rigorous learning community, and our dedication to excellence."

-MARIA KLAWE

Our mission is simple

We’re educating passionate problem solvers.

our mission is simple

We’re educating passionate problem solvers.

our mission is simple

We’re educating passionate problem solvers.

our mission is simple

We’re educating passionate problem solvers.
we inspire

OUR FACULTY INSPIRE STUDENTS. They thrive on teaching. Not just in the classroom or lab (although, that’s critical), but also in other significant ways. Whether meeting a student after class to answer a question or over coffee in The Café, discussing research possibilities, Harvey Mudd faculty inspire their students to think in unconventional ways about their education. Teaching undergraduates is all we do here. The passion for knowledge is high, and the rate of students to faculty is low. There’s an excitement and a common ethic: that’s apparent in student faculty research, conference presentations, professional journal entries and advising (both formal and informal). Our faculty members are not just teaching science, engineering, mathematics and humanities—they are mentoring future colleagues. They do this through individualized education—ensuring that each student receives as much of their attention as possible. There are no graduate teaching assistants or inconvenient office hours. This is education as it was meant to be—one faculty mentor engaging in one-on-one development of a student learner. And it happens here every day.

Tyler Holland-Ashford is on a mission... to explore the universe—and puzzles

Tyler Holland-Ashford ’13 has clear goals for the future: study astrophysics in graduate school, become a researcher with NASA at a national laboratory and create a hover board like the one in the Back to the Future movies. Though the hover board has been on his mind since high school, the physics major’s more recent goals are inspired by his professors and courses at Harvey Mudd.

“Professor Ann Esin taught my Introduction to Astrophysics class, which convinced me to go into the field of astrophysics,” Holland-Ashford said. “She was always so enthusiastic about the subject and willing to discuss interesting tangents. I signed up for an astrophysics lab course the following semester, which really confirmed my decision.”

Of course, Holland-Ashford’s classes also allow him to explore interests outside physics. For example, he said, “I enrolled in the Puzzles Choice Lab for one reason: I like puzzles.” In that computer science course, Holland-Ashford and another student used the Prolog programming language to develop a text adventure game based on the Harry Potter series. He said, “I learned about the difficulty of creating puzzles that are both interesting and fun. There’s a fine balance between making something challenging enough to be interesting yet not difficult that it becomes frustrating.”

we innovate

Demetri Monovoukas is on a mission... to engineer new patient care solutions

Demetri Monovoukas ’15 won the 2013 Henry R. Kravis Award for a proposed electronic Life Patch that measures and relays body temperature data. "The patch would eliminate the need for frequent checks with a conventional thermometer on young, ill or elderly patients. ‘Maybe a continuously monitoring temperature patch isn’t going to change the world, but it’s a step in the right direction,’” said Monovoukas. "I want to try my best to use my engineering skills to make a difference in the world.”

His latest invention, a wound measurement device that will help guide the treatment of pressure ulcers in diabetics, bed-ridden and elderly patients, was developed with support from the Skahalan Endowed Student Directed Project Fund. The pen-shaped WoundStylus traces the outer perimeter of an ulcer and transmits and displays the measurement.

“Paper rulers are the most widely accepted measurement device in use right now. The ulcer is measured as a rectangle to get a rough area perimeter, but the method is almost 50 percent inaccurate,” Monovoukas said. "In, temperature and inaccurate is the industry standard. I wanted to do better.”

Harvey Mudd needs your help

• Creating endowed faculty positions that allow us to continue attracting and retaining a faculty passionate about and capable of teaching and mentoring students at the Harvey Mudd level, while ensuring that our faculty-student ratio remains low.
• Increasing funding for faculty enrichment and curriculum development to support teaching innovation, course development and travel for experiential learning and professional conferences.
• Securing the resources necessary to purchase and maintain critical instrumentation used in faculty research and work with students.
Our professors use research as a powerful teaching tool on Mars or designing a tissue-engineered artificial corneal model, for HIV, using robots to find new ways to search for signs of life exploring new gene therapy techniques to engineer treatments and coursework of our students and faculty. Whether they are COLLABORATION HAPPENS OFTEN—through the research learning opportunities, our students engage in Through Summer Research and other experiential learning opportunities during our student participate in a research or Clinic experience, The curriculum at Harvey Mudd requires that each laborator.

**Sheena Patel is on a mission... to revolutionize magnetic data storage systems**

Goldscholar Sheena Patel ’14 works in the magnetism research group with physicists Professor James Eckert and Patricia Sparks. Patel investigates the properties of thin-film magnetic multi-layer, structures used in magnetic device technology, such as hard drives and position sensors. Her goal is to help identify the underlying physics of new magnetic device technologies.

**Professor Paul Steinberg’s Social Rules Project aims to shift society onto a more strategic vision.**

Professor Steinberg’s Social Rules Project aims to shift society onto a more strategic vision. Students strengthen their basic math skills. By developing apps to help elementary and middle schoolers strengthen their basic math skills. Participation in the national Putnam Mathematical Competition. For his capstone project, he’s working with Elly hand with HMC chemistry faculty.

**Experiential and Interdisciplinary Learning**

• Establishing an endowment that engages students and faculty in a broad range of research and educational initiatives.

Matching funds from the John Stauffer Trust create an opportunity for the students and faculty to pursue new ideas and engage in groundbreaking research.

**Harvey Mudd needs your help**

- Expanding funding for summer research, service or experiential learning stipends to make STEM opportunities limitless.

- Expanding stipends to more faculty can participate in leading summer experiential learning projects that engage students and challenge them to solve problems that push them to deconstruct problems and develop innovative solutions. Harvey Mudd takes this approach because students with this kind of education are far better prepared to be successful in work or graduate school, having already applied their classroom knowledge to real and practical problem-solving.

- Leadership and collaboration extend beyond our campus. Our faculty and students collaborate to develop tools and techniques that provide assistance to K-12 school teachers and students through programs like our Massive Open Online Course initiative—where we will offer training and tools to prepare students and teachers for Advanced Placement examinations—or our Computer Science Games courses, where our students learn programming skills by developing apps to help elementary and middle schoolers strengthen their basic math skills.

- Harvey Mudd College is widely recognized as a leader in programmatic innovation, excellence and rigor. A recipient of the National Science Foundation’s Prestigious Award for the Integration of Research and Education, we have long recognized the importance of faculty-student research, setting aside nearly $3 million annually for this purpose.

- We develop leaders by having our students work on teams with each other and with faculty and industry liaisons—in experiential learning opportunities that push them to deconstruct problems and develop innovative solutions.

- Experiential and Interdisciplinary Learning can participate in leading summer experiential learning experiences. We lead projects that engage students and challenge them to solve problems that push them to deconstruct problems and develop innovative solutions. Harvey Mudd takes this approach because students with this kind of education are far better prepared to be successful in work or graduate school, having already applied their classroom knowledge to real and practical problem-solving.

- My interest in MOOCs has inspired me to explore the potential of MOOCs to make STEM education opportunities limitless.

- My team will provide a ready-to-go course, complete with lesson plans. This will also open more resources for teachers and MOOC. Rather than guiding students in self-directed learning, the Harvey Mudd MOOCs offer classroom-oriented mini-lectures. Chaturapruek designed the Web page for the first MOOC, which focuses on quantum computing. Harvey Mudd MOOCs also include deploying the Web platform and improving the existing curriculum.

- Tum Chaturapruek is on a mission... to make STEM opportunities limitless.
Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading computer science departments being nearly one-third female, while biology and humanities, social sciences and the arts are one-half female. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE HAVE ACHIEVED MUCH over the last decade (and we’ve attracted considerable attention for our efforts in increasing the percentage of women students in computer science from 10 percent in 2005 to 34 percent in 2013). We’re also on track to graduate our first female-major engineering class in 2014. Our enrollment of students from underrepresented groups also nearly doubled in 2013–2014 due largely to an aggressive recruitment program led by our faculty. We have increased the number of women faculty to 36 percent overall, with the engineering, mathematics, chemistry, physics and computer science departments being nearly one-fifth female, while biology and humanities, social sciences and the arts are one-half female. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.

WE STRIVE FOR EXCELLENCE AND DIVERSITY at Harvey Mudd. Our students, who are in the nation’s top two percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, where skateboards and unicycles coexist with robotics and multiscale calculi. From our earliest days, we’ve attracted students of extraordinary ability. We are proud of our National Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. Our faculty members, many of whom have established Merit Scholars than nearly any other U.S. undergraduate institution, are in the top five percent in the nation. We attract the best and the brightest, from our earliest days, we’ve attracted percent academically, could go to any college or university in the world. Yet they’ve chosen a small liberal arts college, to solve the world’s most challenging problems. This places Harvey Mudd at the top of institutions with leading undergraduate programs in these areas. We are still working to significantly improve our diversity with respect to race and ethnic backgrounds among trustees, faculty, staff and students. We’ve added programs for students from underrepresented groups to engage in supportive experiences through programs like our Summer Institute, where we invite students to campus the summer before orientation to get a jumpstart on their coursework, participate in community engagement opportunities and build a sense of connection to the College and to their classmates. We succeeded because we are a collaborative, not competitive, community. At Harvey Mudd, that means each person—whether faculty, staff or student—believes in creating a community dedicated to ensuring the success of others. In this way, we provide the best possible hiring and learning experience for our students.
and student life experiences we offer.

extra-curricular activities but also through the unique residential

these students by providing a broad foundation in the liberal arts.

engaged in many other disciplines. We serve our mission and

both curricular and co-curricular endeavors. Our students love art,

creativity, leadership, teamwork, ethics and communication, in

Although every first-year student is a work in progress,

mitted to intellectual honesty and collaboration, we count on honor.

learning that clears the way for hard work. Because we are com-

Mudd students, our student Honor Code keeps the community

personal growth and the acquisition of skills in areas such as

WE NURTURE AND DEVELOP

we nurture

WE CHALLENGE OUR STUDENTS

we challenge

A former professional hockey player, Christian Stevens ’14 applied the academic scholarship he earned while playing for the Ontario

Hockey League to an education at Harvey Mudd. His pursuit of a joint biology and chemistry major soon led to research in both disciplines. His work has been recognized with a prestigious, multi-year Beckman Scholarship.

He built a pressure sensor system for a “home-

change of scale” he began working on during his freshman year. Students at Harvey Mudd build personal

and professional integrity as they learn how to be

WE CHALLENGE OUR STUDENTS to provide self-gover-

nance; they challenge themselves through their unique areas of

community—facilities and

A Turning Point: Solar Power

A Harvey Mudd student...
and work with technical experts as well as with students, faculty, programs, Mudders gain exposure to international organizations and institutions in the world. Harvey Mudd also has expanded its renowned Clinic in a blog about his experience. “I feel like a much more full, foreign and cold and lonely and crazy, but I feel like I exited a eyes to a markedly different culture. “Living in Russia was very—second or third choice—and determining what type of voting systems would emerge by computing the “average” of all positional systems. Lingenbrink plans to pursue graduate studies in either mathematics or operations research.

As part of their course on Charles Dickens and Thackeray, students, faculty and instructors in a program that partners students with local AIDS service organizations, or work that explores potential new treatments for HIV and work to engage the community by giving back. In this way, we remain true to the College’s mission to serve more middle and high school students through phone tutoring and mentoring works to increase opportunities for faculty and students to explore places they’ve studied during the course.

David Lingenbrink is on a mission…

to gain a global perspective on mathematics

David Lingenbrink ’14 studied math abroad at the Independent University of Moscow as Harvey Mudd’s first Math in Moscow scholarship recipient. The program gives him the opportunity to explore mathematics taught in the Russian tradition, which emphasizes problem solving rather than memorizing theorems.

Lingenbrink stayed in a student hotel in Moscow and traveled by train to the university. The experience opened his eyes to a markedly different culture. “Living in Russia was foreign and cold and lonely and crazy, but I felt like I entered a better place than I was when I entered,” wrote Lingenbrink in a blog about his experiences. “I feel like a much more full, competent person because I spent so much time away.”

Back at Harvey Mudd, Lingenbrink studied voting theory research with fellow math major Sam Gutekunst ’14 and Michael Orrison, professor of mathematics. The work involved examining positional voting systems—where points are assigned to candidates based upon a voter’s first, second or third choice—and determining what type of voting systems would emerge by computing the “average” of all positional systems.

Lingenbrink plans to pursue graduate studies in either mathematics or operations research.

WE ENGAGE WITH OUR COMMUNITY

Through educational outreach programs to K-12 and community college institutions. We target both students and teachers— to inspire new or renewed passion for STEM fields and to increase the pool of potential STEM professionals from underrepresented groups. Our proximity to many high-end andEthnically diverse Southern California neighborhoods places Harvey Mudd in a strong position to make a difference in these communities while providing our students with more opportunities for community engagement.

Community engagement coursework spans the curricular and extracurricular sides of the campus. It can include coursework that explores potential new treatments for HIV and work that partners students with local ACS service organizations, or designing and testing software applications to help elementary students learn and retain basic mathematics concepts. Harvey Mudd College’s new Office of Community Engagement works to increase opportunities for faculty and students to have a positive impact on the broader community. Through programs like Science Bus, Homework Hotline, MyCS and others, our students and faculty engage the challenging problems facing our communities and offer creative solutions to help. In this way, we remain true to the College’s mission to help our students better understand the impact of their work on society.

Harvey Mudd needs your help

• Expanding funding for Homework Hotline to allow our students to serve more middle and high school students through phone tutoring and mentoring.

• Securing funding to enable faculty to develop new and expanded coursework that engages students in community outreach as part of their course offering.

• Securing permanent funding for our new Office of Community Engagement to better support faculty and students engaged in or creating programs serving the community.

Priya Donti is on a mission…

to engage the community by giving back

If there is an activity on campus, it’s likely that President’s Scholar Priya Donti ’15 is an organizer or participant. A former tutor for Homework Hotline, a free, over-the-phone mathematics and science tutoring service for students in grades 4-12, Donti is a staff member in the Harvey Mudd Writing Center and assists faculty whose courses have a community-based learning component.

“My favorite part of community engagement is that it allows me to go back and create opportunities for others in the same way that opportunities for me have been given. It’s also like a vehicle for personal development,” Donti said.

Even her research work with computer science Professor Elizabeth Sweedyk presented a creative opportunity to engage the community. Funded by a National Science Foundation grant, the Games Foundation project challenged students to develop educational games that align learning objectives set by real-world community middle-school social studies teachers.

Once the games were developed, faculty research team visited nearby schools in west-town in the classroom. Donti said, “As a result of the course, students had to engage both environmental sustainability and community partnership opportunities.”

Gabriela Gamiz leads the College’s newly formed Office of Community Engagement (OCE) and assists faculty whose courses have a community-based learning component. “I work closely with the Harvey Mudd community to align our efforts and direction with the College’s mission statement and our local and global community needs,” said Gamiz.

WE ENGAGE WITH OUR COMMUNITY

Through educational outreach programs to K-12 and community college institutions. We target both students and teachers—to inspire new or renewed passion for STEM fields and to increase the pool of potential STEM professionals from underrepresented groups. Our proximity to many high-end and ethnically diverse Southern California neighborhoods places Harvey Mudd in a strong position to make a difference in these communities while providing our students with more opportunities for community engagement.

Community engagement coursework spans the curricular and extracurricular sides of the campus. It can include coursework that explores potential new treatments for HIV and work that partners students with local ACS service organizations, or designing and testing software applications to help elementary students learn and retain basic mathematics concepts. Harvey Mudd College’s new Office of Community Engagement works to increase opportunities for faculty and students to have a positive impact on the broader community. Through programs like Science Bus, Homework Hotline, MyCS and others, our students and faculty engage the challenging problems facing our communities and offer creative solutions to help. In this way, we remain true to the College’s mission to help our students better understand the impact of their work on society.

Harvey Mudd needs your help

• Expanding funding for Homework Hotline to allow our students to serve more middle and high school students through phone tutoring and mentoring.

• Securing funding to enable faculty to develop new and expanded coursework that engages students in community outreach as part of their course offering.

• Securing permanent funding for our new Office of Community Engagement to better support faculty and students engaged in or creating programs serving the community.

As part of their course on Charles Dickens and Thackeray, students, faculty and instructors in a program that partners students with local AIDS service organizations, or work that explores potential new treatments for HIV and work to engage the community by giving back. In this way, we remain true to the College’s mission to serve more middle and high school students through phone tutoring and mentoring.

Community engagement coursework spans the curricular and extracurricular sides of the campus. It can include coursework that explores potential new treatments for HIV and work that partners students with local ACS service organizations, or designing and testing software applications to help elementary students learn and retain basic mathematics concepts. Harvey Mudd College’s new Office of Community Engagement works to increase opportunities for faculty and students to have a positive impact on the broader community. Through programs like Science Bus, Homework Hotline, MyCS and others, our students and faculty engage the challenging problems facing our communities and offer creative solutions to help. In this way, we remain true to the College’s mission to help our students better understand the impact of their work on society.

Harvey Mudd needs your help

• Expanding funding for Homework Hotline to allow our students to serve more middle and high school students through phone tutoring and mentoring.

• Securing funding to enable faculty to develop new and expanded coursework that engages students in community outreach as part of their course offering.

• Securing permanent funding for our new Office of Community Engagement to better support faculty and students engaged in or creating programs serving the community.

Priya Donti is on a mission…

to engage the community by giving back

If there is an activity on campus, it’s likely that President’s Scholar Priya Donti ’15 is an organizer or participant. A former tutor for Homework Hotline, a free, over-the-phone mathematics and science tutoring service for students in grades 4-12, Donti is a staff member in the Harvey Mudd Writing Center and assists faculty whose courses have a community-based learning component. “I work closely with the Harvey Mudd community to align our efforts and direction with the College’s mission statement and our local and global community needs,” said Gamiz.

WE ENGAGE WITH OUR COMMUNITY

Through educational outreach programs to K-12 and community college institutions. We target both students and teachers—to inspire new or renewed passion for STEM fields and to increase the pool of potential STEM professionals from underrepresented groups. Our proximity to many high-end and ethnically diverse Southern California neighborhoods places Harvey Mudd in a strong position to make a difference in these communities while providing our students with more opportunities for community engagement.

Community engagement coursework spans the curricular and extracurricular sides of the campus. It can include coursework that explores potential new treatments for HIV and work that partners students with local ACS service organizations, or designing and testing software applications to help elementary students learn and retain basic mathematics concepts. Harvey Mudd College’s new Office of Community Engagement works to increase opportunities for faculty and students to have a positive impact on the broader community. Through programs like Science Bus, Homework Hotline, MyCS and others, our students and faculty engage the challenging problems facing our communities and offer creative solutions to help. In this way, we remain true to the College’s mission to help our students better understand the impact of their work on society.

Harvey Mudd needs your help

• Expanding funding for Homework Hotline to allow our students to serve more middle and high school students through phone tutoring and mentoring.

• Securing funding to enable faculty to develop new and expanded coursework that engages students in community outreach as part of their course offering.

• Securing permanent funding for our new Office of Community Engagement to better support faculty and students engaged in or creating programs serving the community.

As part of their course on Charles Dickens and Thackeray, students, faculty and instructors in a program that partners students with local AIDS service organizations, or work that explores potential new treatments for HIV and work to engage the community by giving back. In this way, we remain true to the College’s mission to serve more middle and high school students through phone tutoring and mentoring.

Community engagement coursework spans the curricular and extracurricular sides of the campus. It can include coursework that explores potential new treatments for HIV and work that partners students with local ACS service organizations, or designing and testing software applications to help elementary students learn and retain basic mathematics concepts. Harvey Mudd College’s new Office of Community Engagement works to increase opportunities for faculty and students to have a positive impact on the broader community. Through programs like Science Bus, Homework Hotline, MyCS and others, our students and faculty engage the challenging problems facing our communities and offer creative solutions to help. In this way, we remain true to the College’s mission to help our students better understand the impact of their work on society.

Harvey Mudd needs your help

• Expanding funding for Homework Hotline to allow our students to serve more middle and high school students through phone tutoring and mentoring.

• Securing funding to enable faculty to develop new and expanded coursework that engages students in community outreach as part of their course offering.

• Securing permanent funding for our new Office of Community Engagement to better support faculty and students engaged in or creating programs serving the community.

Priya Donti is on a mission…

to engage the community by giving back

If there is an activity on campus, it’s likely that President’s Scholar Priya Donti ’15 is an organizer or participant. A former tutor for Homework Hotline, a free, over-the-phone mathematics and science tutoring service for students in grades 4-12, Donti is a staff member in the Harvey Mudd Writing Center and assists faculty whose courses have a community-based learning component. “I work closely with the Harvey Mudd community to align our efforts and direction with the College’s mission statement and our local and global community needs,” said Gamiz.
The most recent addition to our campus and a key campus project is the Shanahan Center for Teaching and Learning, which has transformed the way our community interacts, offering a unique blend of collaborative, interdisciplinary spaces. The Engineering E4 Design Studio provides ample space for students to work together in teams or individually to explore complex problems. These types of collaborative workspaces allow Harvey Mudd students to focus on both their personal passions and their academic interests, offering a way to balance work and play.

Julie Chang is on a mission…

to blend art and science

Julie Chang ’16 is an accomplished pianist who’s performed in places like the Walt Disney Concert Hall. The engineering major was nonetheless honored to be included in the inaugural concert in Harvey Mudd College’s Drinkward Recital Hall. For music with an enthusiastic campus audience for the first time, said Chang, “there are many serious musicians on campus, and the new recital hall acknowledges and showcases their musical talents. It signals that Harvey Mudd takes music seriously as it does science and engineering.”

The hall’s physical form impresses her as much as its symbolic meaning. Chang said, “the size and layout make it perfect for an intimate performance with a relatively large crowd. The space is also great because of the way our sound travels. The acoustics are amazing, which makes me want to perform there again and again. I feel the space allowed me to express my thoughts through the music in the fullest way possible.”

The piano has been an important part of Chang’s life for nearly 15 years, and she plans to continue playing even as she focuses on chemical engineering. "It will be an impressive place where we can showcase our capabilities to potential classmates and bring their creativity and passions to bear in solving complex problems."

Creating space to advance, our mission remains a critical priority for the College as we embark on The Campaign for Harvey Mudd College. With the College’s decision to gradually add to the size of its student body over the next 10 years, we will require an additional academic building as well as renovations to the existing Olin complex as well as renovations to the existing Jacobs-Keck complex. With the opening of the Shanahan Center, Harvey Mudd is exploring creative and innovative uses for space vacated in the Galileo lecture halls and in Parsons. The Parsons vacancy has allowed the Department of Engineering to begin development of new spaces for the Clinic Program, providing greater security for project teams as well as additional options for collaboration.

The College faces a shortage of on-campus housing, which will be addressed through the funding and construction of a new dormitory as well as the planning of another. Not only will new dorms provide space for all students to live on campus, but also they will provide greater flexibility when existing dormitories require renovation.

We are creative in the use of existing space and resources. Since its founding, Harvey Mudd College has remained adaptable to the changing demands of industry and the evolving interests of its faculty and students. As we continue to assess our space needs, we will ensure the College continues to meet the ever-changing needs of offering a highly collaborative, interdisciplinary and hands-on STEM education.

Travis Beckman is on a mission…

to improve lives through design

Travis Beckman’s final project for the Introduction to Engineering Design and Manufacturing course was as much a personal passion as a college assignment. Beckman’s team chose to design and build a recyclable tricycle for a four-year-old named Joshua whose medical condition led to amputation of both his legs.

“I had my own brush with medical problems in high school and was frustrated by being limited by my body. I became interested in rehabilitative medical technologies, especially prosthetics and similar technologies to help amputees regain their full quality of life,” Beckman ’15 said.

To design a tricycle, Joshua could operate himself, the students contacted his parents about his condition and needs. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio.

The team was our main site to brainstorm, design, and build the recyclable tricycle. The tools and materials allowed us to rapidly prototype ideas, which streamlined our early design process. That’s also where we pitched, tested, hardened and glued our way to finishing the design. The open area in the front allowed efficient brainstorming and discussion using the whiteboards and tables,” Beckman said. “During class, the openness of the space facilitated discussion like no other classroom at the College.

Harvey Mudd needs your help

• Funding the construction of a new dormitory that creates an additional living-learning community on campus and allows more students to remain in on-campus housing.
• Providing additional resources to enable significant renovations to existing facilities to create new and more efficient spaces, which enhance collaboration and better support teaching, research and clinics.
• Supporting the construction of a new academic building adjacent to the Olin Science Center.
• Completing funding of will-be earned spaces in the new R. Michael Shanahan Center for Teaching and Learning.

When students sought to enter the International Genetically Engineered Machine competition in 2013, they had a tough time finding space on campus. They needed space gained by the Department of Mathematics move to the new Shanahan Center, there now exists a nanoscale research lab in Biology (level 1), which houses the ever-changing needs of offering a highly collaborative, interdisciplinary and hands-on STEM education.

Creating space to advance, our mission remains a critical priority for the College as we embark on The Campaign for Harvey Mudd College. With the College’s decision to gradually add to the size of its student body over the next 10 years, we will require an additional academic building as well as renovations to the existing Olin complex as well as renovations to the existing Jacobs-Keck complex. With the opening of the Shanahan Center, Harvey Mudd is exploring creative and innovative uses for space vacated in the Galileo lecture halls and in Parsons. The Parsons vacancy has allowed the Department of Engineering to begin development of new spaces for the Clinic Program, providing greater security for project teams as well as additional options for collaboration.

The College faces a shortage of on-campus housing, which will be addressed through the funding and construction of a new dormitory as well as the planning of another. Not only will new dorms provide space for all students to live on campus, but also they will provide greater flexibility when existing dormitories require renovation.

We are creative in the use of existing space and resources. Since its founding, Harvey Mudd College has remained adaptable to the changing demands of industry and the evolving interests of its faculty and students. As we continue to assess our space needs, we will ensure the College continues to meet the ever-changing needs of offering a highly collaborative, interdisciplinary and hands-on STEM education.

Travis Beckman is on a mission…

to improve lives through design

Travis Beckman’s final project for the Introduction to Engineering Design and Manufacturing course was as much a personal passion as a college assignment. Beckman’s team chose to design and build a recyclable tricycle for a four-year-old named Joshua whose medical condition led to amputation of both his legs. “I had my own brush with medical problems in high school and was frustrated by being limited by my body. I became interested in rehabilitative medical technologies, especially prosthetics and similar technologies to help amputees regain their full quality of life,” Beckman ’15 said.

To design a tricycle, Joshua could operate himself, the students contacted his parents about his condition and needs. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio.

The team was our main site to brainstorm, design, and build the recyclable tricycle. The tools and materials allowed us to rapidly prototype ideas, which streamlined our early design process. That’s also where we pitched, tested, hardened and glued our way to finishing the design. The open area in the front allowed efficient brainstorming and discussion using the whiteboards and tables,” Beckman said. “During class, the openness of the space facilitated discussion like no other classroom at the College.

Harvey Mudd needs your help

• Funding the construction of a new dormitory that creates an additional living-learning community on campus and allows more students to remain in on-campus housing.
• Providing additional resources to enable significant renovations to existing facilities to create new and more efficient spaces, which enhance collaboration and better support teaching, research and clinics.
• Supporting the construction of a new academic building adjacent to the Olin Science Center.
• Completing funding of will-be earned spaces in the new R. Michael Shanahan Center for Teaching and Learning.

When students sought to enter the International Genetically Engineered Machine competition in 2013, they had a tough time finding space on campus. They needed space gained by the Department of Mathematics move to the new Shanahan Center, there now exists a nanoscale research lab in Biology (level 1), which is available for independent, student-led research and for those courses that have a small number of students. There is now a new facility for introductory biology and physiology lab courses, and the exploration-level Core labs now have a dedicated space. "We recreated what had been our introductory biology lab to make it a Core Lab, a teaching and learning space that supports our students in their core academic experiences, but also includes opportunities for collaboration and creativity among our students. We wanted to make the lab feel like a community on campus and allows more students to remain in on-campus housing.

Creating space to advance, our mission remains a critical priority for the College as we embark on The Campaign for Harvey Mudd College. With the College’s decision to gradually add to the size of its student body over the next 10 years, we will require an additional academic building as well as renovations to the existing Olin complex as well as renovations to the existing Jacobs-Keck complex. With the opening of the Shanahan Center, Harvey Mudd is exploring creative and innovative uses for space vacated in the Galileo lecture halls and in Parsons. The Parsons vacancy has allowed the Department of Engineering to begin development of new spaces for the Clinic Program, providing greater security for project teams as well as additional options for collaboration.

The College faces a shortage of on-campus housing, which will be addressed through the funding and construction of a new dormitory as well as the planning of another. Not only will new dorms provide space for all students to live on campus, but also they will provide greater flexibility when existing dormitories require renovation.

We are creative in the use of existing space and resources. Since its founding, Harvey Mudd College has remained adaptable to the changing demands of industry and the evolving interests of its faculty and students. As we continue to assess our space needs, we will ensure the College continues to meet the ever-changing needs of offering a highly collaborative, interdisciplinary and hands-on STEM education.

Travis Beckman is on a mission…

to improve lives through design

Travis Beckman’s final project for the Introduction to Engineering Design and Manufacturing course was as much a personal passion as a college assignment. Beckman’s team chose to design and build a recyclable tricycle for a four-year-old named Joshua whose medical condition led to amputation of both his legs. “I had my own brush with medical problems in high school and was frustrated by being limited by my body. I became interested in rehabilitative medical technologies, especially prosthetics and similar technologies to help amputees regain their full quality of life,” Beckman ’15 said.

To design a tricycle, Joshua could operate himself, the students contacted his parents about his condition and needs. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio. They called manufacturers of similar tricycles. They discussed their ideas and progress with Professor Elizabeth Orwin ’95. And they set to work in the Engineering E4 Design Studio.

The team was our main site to brainstorm, design, and build the recyclable tricycle. The tools and materials allowed us to rapidly prototype ideas, which streamlined our early design process. That’s also where we pitched, tested, hardened and glued our way to finishing the design. The open area in the front allowed efficient brainstorming and discussion using the whiteboards and tables,” Beckman said. “During class, the openness of the space facilitated discussion like no other classroom at the College.

Harvey Mudd needs your help

• Funding the construction of a new dormitory that creates an additional living-learning community on campus and allows more students to remain in on-campus housing.
• Providing additional resources to enable significant renovations to existing facilities to create new and more efficient spaces, which enhance collaboration and better support teaching, research and clinics.
• Supporting the construction of a new academic building adjacent to the Olin Science Center.
• Completing funding of will-be earned spaces in the new R. Michael Shanahan Center for Teaching and Learning.
INVESTING IN PEOPLE | $50 million goal

- Attracting and Retaining Faculty
  - Faculty Chair
  - Teaching Post-doc
- Attracting and Supporting Student Scholarship
  - President’s Scholars Awards

INVESTING IN PLACES | $51 million goal

- Opportunities for Naming Spaces and Facilities
  - R. Michael Shanahan Center for Teaching and Learning
  - New and Renovated Academic Spaces
  - New Dormitory

INVESTING IN PROGRAMS | $24 million goal

- Expanding Opportunities for Experiential Learning
  - Research Program Fellowship
  - Student Stipend
  - Faculty Stipend
  - Service Internship Award
- Investing in Faculty Enrichment and Curriculum Development
  - New Course Development
  - Technical Support Personnel
  - Equipment and Instrumentation
  - Professional Development and Travel
  - Summer Institute
- Community Outreach and Service
  - Homework Hotline
  - Office of Community Engagement

INVESTING IN THE ANNUAL MUDD FUND | $25 million goal

TOTAL CAMPAIGN GOAL | $150 million

SUPPORT the Harvey Mudd College Mission

Contacts

Dan Macaluso
Vice President for Advancement
Office: 909.621.8355
Email: dmacaluso@hmc.edu

Matt Leroux
Assistant Vice President for Development and Constituent Programs
Office: 909.607.0902
Email: mleroux@hmc.edu

Special Matching Gift Opportunity

As part of a transformative gift to The Campaign for Harvey Mudd College, Mike and Mary Shanahan established a matching gift program that is creating opportunities for many donors to double the effect of their personal gifts. Under the terms of this challenge—as long as funds remain—new endowment gifts of $25,000 or more toward a campaign priority are eligible to be matched by an equal amount (up to $1.5 million). Eligible gifts may be paid out over a period of up to five years, with matching funds being applied to each payment.

For campaign updates visit hmc.edu/campaign.
I attended Harvey Mudd in the 1970s and can recall both the challenging and the rewarding times. My engineering education provided me with one trait I use extensively as president and CEO of Hoffman Construction: persistence. Through their tenacity and courage, our founders created a dynamic Harvey Mudd College. Our presidents have built upon this strong foundation, rallying support and establishing new initiatives. Harvey Mudd trustees have managed College affairs with care, ensuring the careful planning and necessary resources needed to ensure excellence. Faculty devote themselves to the students and provide remarkable teaching, mentoring and research opportunities. Alumni find myriad ways to improve this world and to give back in their communities and on campus.

I’m proud to have been able to help oversaw the planning and construction of the R. Michael Shanahan Center for Teaching and Learning. It was a dream of mine to return as a professional to work on a project at my alma mater, and it was a pleasure for Julie and me to personally invest in this beautiful facility.

The College’s ambitious aspirations are possible only with the support and generosity of donors and friends who are committed to the success of Harvey Mudd College. Gifts and pledges have sustained us from our humble beginnings. We’re on a mission to build our reputation for excellence and to adapt to the needs of a changing world. There is no question that nation needs more students preparing for and graduating from the STEM disciplines. And we need donors to support these students at Harvey Mudd College, the leader in educating innovative, socially responsible and passionate problem-solvers.

Let’s continue to ensure Harvey Mudd remains one of the top liberal arts colleges in the nation. Join me in this important effort, and support The Campaign for Harvey Mudd College.