

# MAKERS, CREATORS & COLLABORATIVE INNOVATORS

Carnegie Mellon is a place where learning is a hands-on experience that includes making things. The university's roots as a technical trade school founded for the sons and daughters of steelworkers instills in us deep appreciation for the power of making things.

This making things approach to learning with a combination of the residential campus experience with fellow makers of all disciplines has driven Carnegie Mellon's educational experience for more than a century.

At Carnegie Mellon, you can pursue any undergraduate degree here and choose to be a maker, or an innovator or a creator. It all starts with an idea.

The university offers pathways open to all majors to tinker. To research. To collaborate with diverse cohorts. To find something that makes your brain tick.

## OPPORTUNITIES

### IDeATe

The Integrative Design, Arts and Technology Network

### Meeting of the Minds

### Swartz Center for Entrepreneurship

### BXA Intercollege Degree Programs



## IDeATe: THE INTEGRATIVE DESIGN, ARTS AND TECHNOLOGY NETWORK

IDeATe supports interdisciplinary collaboration at the various intersections of creativity and technology that are unique to Carnegie Mellon.

IDeATe offers undergraduate courses and minors in eight interdisciplinary areas: Game Design, Animation & Special Effects, Media Design, Sound Design, Learning Media, Innovation & Entrepreneurship, Intelligent Environments and Physical Computing. Within these areas, students from all majors share ideas and interact with each other to better understand diverse perspectives as thinkers and as emerging experts.

## TECH-ARTS ECOSYSTEM



IDeATe operates out of its labs, classrooms and maker facilities in the university's Hunt Library. The IDeATe facility includes a fabrication shop, a physical computing lab, and an interactive media black box and is part of the evolution of the library into a 21st century, mediated learning commons.

Find out how to make IDeATe a part of your undergraduate experience at

[ideate.cmu.edu](http://ideate.cmu.edu)

The IDeATe curriculum offers Carnegie Mellon students of any major the opportunity to integrate one of eight unique interdisciplinary minors into their degree.

Options include:

- > Game Design
- > Animation & Special Effects
- > Media Design
- > Learning Media
- > Sound Design
- > Innovation & Entrepreneurship
- > Intelligent Environments
- > Physical Computing



## MEETING OF THE MINDS (MoM)

The Undergraduate Research Symposium is a university-wide celebration of undergraduate research for all disciplines. Display your art. Design a poster. Give a live performance or an oral presentation. Undergraduate majors from areas like English, chemistry, computer science, economics, mechanical engineering — just to name a few — provide interesting discussions and breathtaking solutions to some of our most pressing social, medical, transportation, technical, and public policy issues. They stretch the boundaries and find interesting interdisciplinary connections between the humanities, arts, social sciences, business, computer science, sciences, and engineering. This allows for diverse creative ideas to percolate in exciting and unpredictable ways.

### MoM Projects

- > Optimal Assets Allocation of a Retirement Portfolio (Math)
- > Understanding the Economic Self-Sufficiency of Nepali Bhutanese Refugees (Global Studies)
- > Developing an Improved Emergency Response Robot (Computer Science)
- > Steel City Sorcery: Investigating Pittsburgh Witchcraft (Humanities and Arts)
- > Fruit-Derived Permeation Enhancement of the Intestinal Epithelium for Improved Oral Drug Delivery (Chemical Engineering)

## RESEARCH

Meeting of the Minds highlights students who have participated in undergraduate research at Carnegie Mellon through the Undergraduate Research Office (URO), as well as the departments and schools. It showcases the endless opportunities to expose yourself to things you may not have contemplated.

Find out more about how to participate in the Meeting of the Minds at

[cmu.edu/uro](http://cmu.edu/uro)  
[cmu.edu/uro/MoM](http://cmu.edu/uro/MoM)

## SWARTZ CENTER FOR ENTREPRENEURSHIP

The Swartz Center for Entrepreneurship at Carnegie Mellon is a system of programs and activities that offers a unique path of entrepreneurship education, engagement, collaboration and opportunity — for a truly transformative learning experience.

## ENTREPRENEURS

Carnegie Mellon advances research, ideas and startup companies.

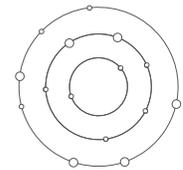
**560+**

**Projects supported** by the Swartz Center for Entrepreneurship and Project Olympus Incubator Program

**135+**

**New companies developed** through the Swartz Center for Entrepreneurship and Project Olympus Incubator Program

**> \$310 MILLION INVESTED FUNDS**



Find out more about how to get involved at

[cmu.edu/swartz-center-for-entrepreneurship](http://cmu.edu/swartz-center-for-entrepreneurship)

## BXA INTERCOLLEGE DEGREE PROGRAMS

Carnegie Mellon offers three interdisciplinary degree-granting programs and an additional major option that combine studies in the fine arts and computer science, humanities and social sciences, the natural and mathematical sciences or engineering. Options include:

- > **Bachelor of Computer Science and Arts (BCSA)**  
This program provides an ideal technical, crucial and conceptual foundation for students pursuing fields that meld technology and the arts, such as game design, computer music, robotic art and other emerging media.
- > **Bachelor of Humanities and Arts (BHA)**  
This program is designed for academically and artistically talented students who want to develop their interest in the fine arts while also pursuing studies in the humanities and social/behavioral sciences.
- > **Bachelor of Science and Arts (BSA)**  
This program allows uniquely qualified students the opportunity to fuse their interests in the fine arts with the natural sciences or mathematics.
- > **Engineering and Arts (EA) Additional Major**  
This program allows engineering majors the ability to incorporate a College of Fine Arts (CFA) concentration and interdisciplinary courses to expand their field of study.

### Alumni Accomplishments

- > **Jake Berntsen** (BHA 2016) is a member of the popular brass band Beauty Slap. He created new technology to live mix electronic funk dance music with the instrumentalists' brass sound. The group released their first full-length album and frequently books shows across the country.
- > **John Choi** (BCSA 2017), Swartz Center for Entrepreneurship Innovation Scholar, is the first recipient of the Tellerman Family Innovation Scholarship. He created the startup Choitek, an Olympus PROBE Project, that brings easy-to-build robot kits to market and was part of the Carnegie Mellon contingent honored at the National Maker Faire in Washington, D.C.

Find out more at

[cmu.edu/interdisciplinary](http://cmu.edu/interdisciplinary)

## Carnegie Mellon University

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