GRADUATE STUDY IN INFORMATION, COMPUTER & COMMUNICATIONS TECHNOLOGIES

Biology, BioMedical, BioTechnology
Computer Science
Design
Engineering
Entertainment
Information Management, Systems & Technology
Information Networking
Computation and Statistics
Policy & Management
Telecommunication & Electronic Security
Carnegie Mellon University

Founded in 1900 by industrialist and philanthropist Andrew Carnegie, Carnegie Mellon University today is a world class research university of about 11,000 students and 5,000 faculty, research and administrative staff. Students represent all 50 states and more than 100 countries.

The university consists of seven colleges and schools: Carnegie Institute of Technology (engineering), College of Fine Arts, Dietrich College of Humanities and Social Sciences, Heinz College, Mellon College of Science, School of Computer Science, and Tepper School of Business. In its annual rankings, U.S. News and World Report consistently rates several of Carnegie Mellon’s programs highly, including those in fields of engineering, computer science, design, art, business, and public policy and management.

Carnegie Mellon University is helping to shape the world through education, research and outreach. While Carnegie Mellon has strong roots in Pittsburgh, Pennsylvania, the university truly has a global presence. With branch campuses and the opportunity to study abroad or pursue professional and distance learning, students are sure to find many ways to explore the world with Carnegie Mellon.

The unique culture at Carnegie Mellon allows students and faculty members to work with scholars outside of their schools and colleges. The campus atmosphere offers opportunities to engage in groundbreaking research.

### Biology, BioMedical, BioTechnology

- **M.S. in Biotechnology Innovation and Computation**  
  [http://bic.cs.cmu.edu](http://bic.cs.cmu.edu)
- **M.S. in Computational Biology**  
  [www.cmbio.cmu.edu/grad](www.cmbio.cmu.edu/grad)
- **Ph.D. in Computational Biology**  
  [www.compbio.cmu.edu](www.compbio.cmu.edu)
- **Ph.D. Program in Neural Computation**  
  [www.cnbc.cmu.edu/pnc](www.cnbc.cmu.edu/pnc)
- **M.S. in Biotechnology and Management**  
  [www.heinz.cmu.edu/msbtm](www.heinz.cmu.edu/msbtm)
- **Master in Biomedical Engineering**  
  [http://www.bme.cmu.edu/gradprog/ms.html](http://www.bme.cmu.edu/gradprog/ms.html)
- **M.S. in Biomedical Engineering**  
  [http://www.bme.cmu.edu/gradprog/ms.html](http://www.bme.cmu.edu/gradprog/ms.html)
- **Ph.D. in Biomedical Engineering**  
  [http://www.bme.cmu.edu/gradprog/phd.html](http://www.bme.cmu.edu/gradprog/phd.html)
- **M.D./Ph.D. in Biomedical Engineering (with University of Pittsburgh School of Medicine)**  
  [http://www.bme.cmu.edu/gradprog/md_phd.html](http://www.bme.cmu.edu/gradprog/md_phd.html)

### Computer Science

- **M.S. in Computer Science**  
  [www.csd.cs.cmu.edu/education/master/index.html](www.csd.cs.cmu.edu/education/master/index.html)
- **Ph.D. in Computer Science**  
  [www.csd.cs.cmu.edu/education/phd](www.csd.cs.cmu.edu/education/phd)
- **M.S. in Language Technologies**  
  [http://www.itlics.cs.cmu.edu](http://www.itlics.cs.cmu.edu)
- **Ph.D. in Language and Information Technologies**  
  [www.itlics.cs.cmu.edu](www.itlics.cs.cmu.edu)
- **Ph.D. in Machine Learning**  
  [http://www.ml.cmu.edu/prospective-students/index.html](http://www.ml.cmu.edu/prospective-students/index.html)
- **Ph.D. in Machine Learning and Public Policy**  
  [http://www.ml.cmu.edu/prospective-students/joint-phd-miheinz.html](http://www.ml.cmu.edu/prospective-students/joint-phd-miheinz.html)
- **Ph.D. in Statistics and Machine Learning**  
  [http://www.ml.cmu.edu/prospective-students/joint-phd-mlstat.html](http://www.ml.cmu.edu/prospective-students/joint-phd-mlstat.html)
- **Master of Entertainment Technology**  
  [http://www.etc.cmu.edu/site/](http://www.etc.cmu.edu/site/)
- **Masters of Human-Computer Interaction**  
  [www.hcii.cmu.edu/masters-program-pittsburgh](www.hcii.cmu.edu/masters-program-pittsburgh)
- **Ph.D. in Human-Computer Interaction**  
  [www.hcii.cmu.edu/phd-program](www.hcii.cmu.edu/phd-program)
- **M.S. in Robotics**  
  [http://www.ri.cmu.edu/ri_static_content.html?menu_id=322](http://www.ri.cmu.edu/ri_static_content.html?menu_id=322)

### Computer Science cont.

- **Ph.D. in Robotics**  
  [http://www.ri.cmu.edu/ri_static_content.html?menu_id=321](http://www.ri.cmu.edu/ri_static_content.html?menu_id=321)
- **M.S. - Robotics Technology Program**  
  [www.ri.cmu.edu/MS-RT](www.ri.cmu.edu/MS-RT)
- **M.S. in Information Technology - eBusiness Technology**  
  [www.ebusiness.cs.cmu.edu](www.ebusiness.cs.cmu.edu)
- **M.S. in Information Technology - Very Large Information Systems**  
  [http://vlis.isri.cmu.edu](http://vlis.isri.cmu.edu)
- **M.S. in Information Technology - Embedded Software Engineering**  
  [www.isri.cmu.edu/education/](www.isri.cmu.edu/education/)
- **Masters of Software Engineering**  
  [http://mse.isri.cmu.edu/software-engineering/](http://mse.isri.cmu.edu/software-engineering/)
- **Ph.D. in Software Engineering**  
  [www.isri.cmu.edu/education/](www.isri.cmu.edu/education/)
- **Certificate in Software Engineering (CSE)**  
  [http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSE/index.html](http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSE/index.html)
- **Certificate in Systems and Software Engineering (CSSE with Cornell University)**  
  [http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSSE.html](http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSSE.html)

### Design

- **M.S. in Computational Design**  
  [http://www.cmu.edu/architecture/academics/graduate/cd/index.html](http://www.cmu.edu/architecture/academics/graduate/cd/index.html)
- **Ph.D. in Computational Design**  
  [http://www.cmu.edu/architecture/academics/graduate/cd/index.html](http://www.cmu.edu/architecture/academics/graduate/cd/index.html)
- **M.S. in Tangible Interaction Design**  
  [www.cmu.edu/architecture/academics/graduate/index.html](www.cmu.edu/architecture/academics/graduate/index.html)
- **Master of Design in Communication Planning and Information Design**  
  [http://www.design.cmu.edu/show_program.php?s=2&+t=2](http://www.design.cmu.edu/show_program.php?s=2&+t=2)
- **Master of Design in Interaction Design**  
  [http://www.design.cmu.edu/show_program.php?s=2&+t=3](http://www.design.cmu.edu/show_program.php?s=2&+t=3)
- **Ph.D. in Design**  
  [www.design.cmu.edu](www.design.cmu.edu)
- **Masters of Human-Computer Interaction**  
  [www.hcii.cmu.edu/masters-program-pittsburgh](www.hcii.cmu.edu/masters-program-pittsburgh)
- **Ph.D. in Human-Computer Interaction**  
  [www.hcii.cmu.edu/phd-program](www.hcii.cmu.edu/phd-program)
- **M.S. in Computational Design and Manufacturing**  
  [http://www.cmu.edu/me/graduate/degree-programs.html](http://www.cmu.edu/me/graduate/degree-programs.html)

### ADMISSIONS TO GRADUATE PROGRAMS

Admission to graduate programs is handled by the individual academic departments, and requirements and deadlines vary from department to department. For detailed information on the individual programs please visit the websites listed under each degree.
Carnegie Mellon’s Interdisciplinary Approach

Carnegie Mellon University takes a unique interdisciplinary approach to teaching and research—encouraging collaboration among students and faculty across departments and colleges. This unique perspective fosters the growth of innovative discoveries that provide solutions to real-world problems in a variety of disciplines.

Several interdisciplinary programs for graduate study have grown from this approach. This brochure provides an overview of graduate programs offered at Carnegie Mellon that focus on information, computer, and communications technologies. We encourage you to visit the websites listed.

Carnegie Mellon also encourages collaboration across departmental, college and institutional boundaries, continuing the university’s strong tradition of interdisciplinary research. Many faculty members have joint appointments, and adjunct faculty members complete the wide array of expertise available to students. Through research, coursework and seminars, students enjoy opportunities to expand their knowledge in interrelated areas. Additional information on research initiatives can be found at http://www.cmu.edu/research/centers.shtml

Engineering

M.S. in Computational Mechanics
http://www.ce.cmu.edu/graduate/ms-program.html
Ph.D. in Computational Mechanics
http://www.ce.cmu.edu/graduate/phd-program.html
M.S. in Engineering and Technology Innovation Management
http://www.cit.cmu.edu/etim/
Master of Business Administration and Master of Software Engineering (MBA/MSE)
http://mse.isri.cmu.edu/software-engineering/web1-Programs/MBA-MSE/
Masters of Software Engineering
http://mse.isri.cmu.edu/software-engineering/
Ph.D. in Software Engineering
www.isri.cmu.edu/education/
Certificate in Software Engineering (CSE)
http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSE/index.html
Certificate in Systems and Software Engineering (CSSE with Cornell University)
http://mse.isri.cmu.edu/software-engineering/web1-Programs/CSSE.html
M.S. in Computational Design and Manufacturing
http://www.cmu.edu/me/graduate/degree-programs.html
Master in Biomedical Engineering
http://www.bme.cmu.edu/gradprog/ms.html
M.S. in Biomedical Engineering
http://www.bme.cmu.edu/gradprog/ms.html
Ph.D. in Biomedical Engineering
http://www.bme.cmu.edu/gradprog/phd.html
M.D./Ph.D. in Biomedical Engineering (with University of Pittsburgh School of Medicine)
www.heinz.cmu.edu/msbtm

Engineering cont.

M.S. in Electrical and Computer Engineering
(with a focus on Signal Processing and Communications of Software Systems and Computer Networking)
http://www.ece.cmu.edu/prospective/graduate/masters/
Ph.D. in Electrical and Computer Engineering
(with a focus on Signal Processing and Communications of Software Systems and Computer Networking)
http://www.ece.cmu.edu/programs-admissions/phd/index.html

Entertainment

M.S. in Music & Technology
http://music.cmu.edu/
Master of Entertainment Technology
http://www.etc.cmu.edu/site/

Information Management, Systems & Technology

Master of Information Systems Management
www.heinz.cmu.edu/mism
M.S. in Information Security Policy and Management
www.heinz.cmu.edu/misspm
M.S. in Information Technology
(tracks in Information Technology Management, Information Security and Assurance, Software Design and Management)
www.heinz.cmu.edu/msit
M.S. in Information Technology - Privacy
http://privacy.cs.cmu.edu
Master of Public Management
(with concentrations in Educational Technology, Management, and Information Systems)
www.heinz.cmu.edu/mpm
Ph.D. in Information Systems and Management
www.heinz.cmu.edu/msit

Information Management, Systems & Technology cont.

Ph.D. in Information Systems
www.tepper.cmu.edu/doctoral-program/index.aspx

Information Networking

M.S. in Information Networking
www.ini.cmu.edu/degrees/index.html
M.S. in Information Security Technology and Management
www.ini.cmu.edu/degrees/index.html
Executive M.S. in Information Assurance
www.ini.cmu.edu/degrees/index.html

Computation and Statistics

M.S. in Computational Finance
www.tepper.cmu.edu/master-in-computational-finance/index.aspx
Pre-Doctoral Program in Interdisciplinary Education Research
www.cmu.edu/pier
M.S. in Logic, Computation, and Methodology
http://www.hss.cmu.edu/philosophy/graduate-ms.php
Ph.D. in Logic, Computation, and Methodology
http://www.hss.cmu.edu/philosophy/graduate-phd.php
Ph.D. in Pure and Applied Logic
http://logic.cmu.edu/
Master’s in Statistical Practice
http://www.stat.cmu.edu/programs/graduate
Ph.D. in Statistics
http://www.stat.cmu.edu/programs/graduate
Ph.D. in Statistics and Public Policy
http://www.stat.cmu.edu/programs/graduate
Ph.D. in Statistics and Machine Learning
http://www.stat.cmu.edu/programs/graduate

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FUNDING FOR GRADUATE STUDY

Doctoral programs at Carnegie Mellon usually provide tuition and stipends for their students. Master’s programs are typically not funded, but partial departmental assistance may be available. Additionally, various types of financial aid are available for master’s and Ph.D. programs. For more information, contact the individual departments or Enrollment Services: http://www.cmu.edu/hub/new-grad/index.html

Policy & Management

M.S. in Public Policy and Management
www.heinz.cmu.edu/msppm
Master of Public Management
(with concentrations in Management, Healthcare and Education)
http://www.heinz.cmu.edu/mpm
Ph.D. in Public Policy and Management
www.heinz.cmu.edu/phd
Ph.D. in Statistics and Public Policy
http://www.stat.cmu.edu/programs/graduate
Ph.D. in Engineering & Public Policy
http://www.epp.cmu.edu/graduate/index.html
Ph.D. in Strategy, Entrepreneurship and Technological Change
www.cmu.edu/SETChange
M.S. in Robotic Systems Development
http://www.ri.cmu.edu/ri_static_content.html?menu_id=437
Ph.D. in Computation, Organizations and Society
http://cos.cs.cmu.edu/
Ph.D. in Machine Learning and Public Policy
http://www.ml.cmu.edu/prospective-students/joint-phd-mlheinz.html
M.S. in Biotechnology and Management
www.heinz.cmu.edu/msbtm
M.S. in Information Technology - Software Engineering Management
www.isri.cmu.edu/education/
M.S. in Engineering and Technology Innovation Management
http://www.cit.cmu.edu/etim/
Master of Business Administration and Master of Software Engineering (MBA/MSE)
http://mse.isri.cmu.edu/software-engineering/web1-Programs/MBA-MSE/

Telecommunication & Electronic Security

M.S. in Electrical and Computer Engineering
(with a focus on Signal Processing and Communications of Software Systems and Computer Networking)
http://www.ece.cmu.edu/prospective/graduate/masters/
Ph.D. in Electrical and Computer Engineering
(with a focus on Signal Processing and Communications of Software Systems and Computer Networking)
http://www.ece.cmu.edu/programs-admissions/phd/index.html
M.S. in Information Networking
http://www.ini.cmu.edu/degrees/index.html
M.S. in Information Security Technology and Management
http://www.ini.cmu.edu/degrees/pgh_msisitm/index.html
Master of Information Systems Management
www.heinz.cmu.edu/mism
M.S. in Information Technology (tracks in Information Technology Management, Information Security and Assurance, Software Design and Management)
www.heinz.cmu.edu/msit
M.S. in Information Security Policy and Management
www.heinz.cmu.edu/msispm
M.S. in Information Technology - Information Security
http://www.ini.cmu.edu/degrees/index.html
Executive M.S. in Information Assurance
www.ini.cmu.edu/degrees/index.html

Global Presence

Silicon Valley
Moffett Field, CA
http://www.cmu.edu/silicon-valley/
M.S. in Software Engineering
M.S. in Software Management
M.S. in Engineering and Technology Innovation Management
M.S. in Information Technology
MSIT-Mobility, MSIT-Information Security, MSIT-Software Management
M.S. in Electrical and Computer Engineering
Ph.D. in Electrical and Computer Engineering (with a focus on mobility, security, wireless sensors and networking)

Australia
http://www.heinz.cmu.edu/australia/index.aspx
M.S. in Information Technology
M.S. in Information Technology - Information Technology Management
M.S. in Public Policy and Management

Portugal
http://www.cmu.edu/portugal/home.aspx?id=132
Master of Entertainment Technology
Master in Human-Computer Interaction
M.S. in Information Technology - Information Security
Master of Software Engineering
Ph.D. in Computer Science
Ph.D. in Computer Science - Robotics
Ph.D. in Electrical and Computer Engineering
Ph.D. in Engineering and Public Policy
Ph.D. in the area of Human-Computer Interaction
Ph.D. in Language Technology
Ph.D. in Applied Mathematics
Ph.D. in Software Engineering
Ph.D. in Technological Change and Entrepreneurship

Rwanda
http://www.cmu.edu/rwanda/
Master's in Information Technology
M.S. in Electrical and Computer Engineering (Start date Fall 2014)

Carnegie Mellon University does not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders. Inquiries concerning the application of and compliance with this statement should be directed to the vice president for campus affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056. Obtain general information about Carnegie Mellon University by calling 412-268-2000.