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Independent, reliable guide to online education for more than 22 years! Copyright ©2020 GetEducated.com; Approved by Colleges, LLC All Rights Reserved Andersen Ross Photography Inc/DigitalVision/Getty Images With excellent job prospects and a good starting salary, computer science is one of the most popular specialty students in the United States as well as in the world. A bachelor's degree in computer science can lead to careers in a wide range of fields including medicine, finance, engineering, communications and, of course, software development. Students who have a great involvement in computer science should have strong mathematical and problem solving skills. Mandatory math courses are likely to include calculus, statistics, discrete mathematics and linear algebra. Several programming courses are also part of the curriculum, and students often learn languages such as SH, Java, and Python. Other typical courses focus on operating systems, data structures and algorithms, as well as machine learning. Specialties include numerous optional courses so that students can specialize in interests such as artificial intelligence or game design. The vast majority of four-year colleges and universities in the United States offer computer science specialties, so school choice can be challenging. The 15 schools below tend to place among the best undergraduate computer science programs in the country. They all have excellent opportunities, a faculty with strong research achievements, a breadth of opportunities for practical experience, and impressive employment data. Schools were listed in alphabetical order, as computer science programs vary greatly in size, curriculum and areas of specialization. Beckman Institute in Caltech. Smerikal /Flickr Caltech often connects with the Massachusetts Technology #1 in the country among engineering schools, and its computer science program is just as strong. The program is smaller than most on this list, with about 65 undergraduate students graduating each year. Small size can be an advantage: Caltech has a terrific 3 to 1 student/faculty ratio, so students have plenty of opportunities to get to know their professors and conduct research. Along with majors in computer science, Caltech offers specialties in applied and computational mathematics as well as information and data sciences. Students can also choose minor control systems and dynamic systems. Research opportunities abound on campus, in nearby JPL (Jet Propulsion Laboratory), as well as as part of the Summer Scholarship Program for Students (SURF). The school's location in Pasadena, California, puts it next to high-tech companies in Southern California. A total of 95% of all students from Caltech take at least one computer science class, and 43% of new computer science majors are women- a large number for men dominate the field. Carnegie Mellon University campus. Paul McCarthy // According to CSRankings.org, Carnegie Mellon University ranks first in the country in terms of the number of its computer science faculties and the number of publications they have produced. The university annually awards about 170 bachelor's degrees in computer science, and has reliable programs for graduates in fields such as artificial intelligence, computer security and computer networks. The School of Computer Science of the KMU has numerous departments and institutes, including the Institute of Human-Computer Interaction, the Department of Machine Learning, the Institute of Robotics, the Institute of Language Technology and the Faculty of Computational Biology. The result is that students have excellent opportunities to conduct research, and any motivated student can finish with a strong resume with a lot of practical experience. Along with computer science, CMU offers undergraduate programs in computer biology, artificial intelligence, computer science and art, music and technology, robotics and human-computer interaction. The attractive campus in Pittsburgh, Pennsylvania, has a breadth of other strengths in the STEM field, and CMU consistently ranks among the best engineering schools in the country. Dosfotos/Design Pics/Getty Images Columbia University, one of eight prestigious Ivy League schools, may not immediately come to mind when thinking about top STEM options, but the School of Computer Science program is undoubtedly one of the best in the country. The school graduates about 250 computer science majors per year and even more master's students. With its large size, the program has strengths in many areas including computer and network security, machine learning, natural language processing, computer architecture, graphics and user interfaces. Columbia students in computer science find many opportunities for research in 25 research laboratories of the program, and there are opportunities for research for both academic credits and pay. Columbia's location in Manhattan's Morningside Heights area is another advantage, and many potential employers are nearby. Dennis Macdonald/Getty Images Cornell University is arguably the strongest of Ivy League schools for STEM fields, and graduates universities with more than 450 students each year in computer and information sciences. Cornell is a computer science major interdisciplinary and is affiliated with both the College of Liberal Arts and Sciences and the College of Engineering. Research is central to the program, and its faculty have won two Turing Awards and a MacArthur Genius Grant. The university has research strengths in a wide range of computer science fields, including artificial intelligence, computational biology, architecture, graphics, human interaction, robotics, security and systems/networks. Many CS students do research independent study working with a teacher or doctoral student. Cornell is located in Ithaca, New York, in the heart of the Fingerlakes region in upstate New York. Ithaca is often considered one of the best college towns in the country. Aneese/Stock Editorial/Getty Images Located in Atlanta, Georgia, Georgia Tech consistently ranks among the best engineering schools in the country, and as a public university, it represents exceptional value, especially for students in the state. Computer Science is the most popular student at Major University, with more than 600 students receiving a bachelor's degree each year. Students in computer science at Georgia Tech can choose from eight strands to create a bachelor's experience that suits their specific interests and career goals. Areas of attention devices, Information Internetworks, Intelligence, Media, Modeling and Modeling, People (Human-Oriented Computing), Systems and Architecture, and Theory. Students who would like to pursue a college degree with significant experience in this field should consider a five-year version of the Georgia Tech cooperative, rabbit75_jsi/Stock/Getty Images Harvard University has many differences, including being the most selective university in the country and one of the most prestigious higher education institutions in the world. The school computer science program lives up to this reputation. About 140 students receive a Bachelor of Science degree each year, and a similar number receive diplomas. Notable areas of computer science at Harvard include machine learning, visualization, intelligent interfaces, privacy and security, economics and computer science, operating systems, graphics and artificial intelligence. Harvard computer science students all complete senior thesis studies, and they also have many opportunities to conduct research throughout their college years and over the summer. With an endowment of more than \$40 billion, the university has the resources to support faculty and research students. Ten-week summer opportunities are available through the Science and Technology Research Programme. In addition, the Harvard College Office of Research and Scholarships for Students works to help computer science students find meaningful research opportunities both on and off campus. John Nordell/The Image Bank/Getty Images For numerous STEM fields, MIT consistently ranks at or #1 in the country, if not the world. Computer science is the most popular specialty institute by a significant margin. Along with the popular course 6-3 of the Massachusetts Institute of Technology (computer science and engineering), students can also choose a course 6-2 (electrical engineering and computer science), 6-7 (computer science and molecular biology) and course 6-14 (computer science, economics and data science). As in Caltech, the Massachusetts Institute of Technology has an impressive ratio of students/teachers 3 to 1, and find many opportunities to conduct research with a teacher or graduate student. The vast majority of MIT students complete at least one UROP (Undergraduate Research Opportunity) project before graduation, and many complete three or more. Students can choose to conduct research or pay or loan. The breadth of the institute's research is impressive and includes big data, cybersecurity, energy, multi-core processors and cloud computing, robotics, nanotechnology and quantum information processing. Princeton University. Allen Grove Is another Ivy League school on this list, Princeton University graduates about 150 undergraduate computer science students each year and another 65 or so at graduate level. A Bachelor of Computer Science specialty can choose from a Bachelor of Arts (A.B.) or a Bachelor of Science in Engineering (B.S.E.) path degree. Princeton has a strong independent work program (IW) built into the curriculum, so students finish their studies with practical experience. Princeton Computer Science teachers have a wide range of fields of expertise. The most popular areas of research are computational biology, graphics/vision/human-computer interaction, machine learning, politics, security and privacy, systems and theory. Stanford University. Daniel Hartwig/Flickr of Stanford University is another powerhouse in STEM, and computer science is the most popular area, with more than twice as many majors as any other undergraduate program. The university usually awards more than 300 bachelor's degrees in computer science each year. Stanford has notable research strengths in robotics, artificial intelligence, the basics of computer science, systems and scientific computing. The program also encourages interdisciplinary work and has collaborated with chemistry, genetics, linguistics, physics, medicine and several engineering fields. Stanford's location near Silicon Valley provides computer science students with many opportunities for internships, summer jobs, and after-university employment. Geri Lavrov/Stockbyte/Getty Images UC Berkeley is one of the most selective public universities in the country and it has long been known for its strong programs in engineering and science. With over 600 bachelor's degree in computer science students graduating each year, this is the second largest program at the university, lagging slightly behind biology. Students can obtain a bachelor's degree in computer science through the Berkeley College of Engineering, or they can obtain a bachelor's degree through the College of Letters and Sciences. Electrical and Computer Science Program The University of Berkeley (EECS) is home to more than 130 faculty members. A total of 60 research centers and laboratories are associated with the program, and teachers and students conduct research in 21 areas, including signal processing, graphics, artificial intelligence, intelligence, human-computer interaction, integrated circuitry, design and control automation, intelligent systems and robotics. The beautiful campus in the Bay Area provides additional opportunities because of its proximity to many high-tech companies in Silicon Valley and Berkeley itself. It is also noteworthy that teachers and alumni of the program founded more than 880 companies. San Diego Super Computer Center at UCSD (click photo to zoom in). Photo Credit: Marisa Benjamin UCSD is the most stem-oriented of all UCLA campuses, and each year graduates of the university with more than 400 computer science majors, another 375 in mathematics and computer science, 115 in computer engineering, and about 70 in bioinformatics. Like all strong computer programs, UCSD provides students with many opportunities to gain practical research experience. Popular options include working with a teacher through an independent study or a group study. The UCSD Computer Science Curriculum is designed to provide all students with a wide range of knowledge in areas such as computer systems, security/cryptography, programming systems, and machine learning. California's tech hotspots are not limited to Silicon Valley, and students will find many opportunities for internships, research and employment in the San Diego region. University of Illinois Urbana-Champaign, UIUC. Christopher Schmidt/Flickr While the East and West Coast dominate this list, the University of Illinois at Urbana-Champaign gives students a great place to study computer science in the Midwest. The University annually awards about 350 bachelor's degrees in computer science, as well as a similar number of degrees in computer engineering. UIUC has several interdisciplinary degree options as well, including a bachelor's degree in mathematics and computer science and a bachelor's degree in statistics and computer science. Many computer science students stay on campus in the summer to take advantage of the Illinois Computer Science Research Experience for Students (REU), a 10-week program in which students conduct research led by faculty mentors and graduate students. The university has a dozen fields of research specialization, including interactive computing, programming languages, computers and education, artificial intelligence, and information systems of data and information. UIUC prides itself on the results of its program, as typical starting salaries for its students are in the range of \$100,000, which is almost \$25,000 above the national average. jweisei/Stock/Getty Images Computer Science is the most popular major in Michigan: the university annually awards more than 600 bachelor's degrees in computer science. Options for a bachelor's degree in computer science, a B.S. in computer science, a B.S.E. in computer engineering, a B.S.E. in data science, and a B.S. in data science. Computer Computer minor is also an option. Researchers at the CSE Michigan Faculty are affiliated with one or more of the program's five labs: the Artificial Intelligence Laboratory, the Computer Lab, the Interactive Systems Laboratory, the Systems Laboratory and the Computing Theory Laboratory. The university also has research centres focused on areas such as machine learning, computer security, digital curricula and future architectures. With the size of the program and the breadth of interest of the Faculty of Research, students have the opportunity to conduct research in a wide range of computer science specialties. Robert Glusic/Corbis/Getty Images UT Austin Computer Science program is largely a bachelor's note, with more than 350 students graduating each year. Student computer science can choose from five areas of concentration: big data, computer systems, cybersecurity, game development, machine learning and artificial intelligence, and mobile computing. UT has several initiatives to get students involved in research. The Freshman Research Initiative (FRI) attracts students from the first year of university, and they can draw on this experience by participating in the Accelerated Research Initiative (ARI) as top-class students. The university also works to connect students with faculty through Eureka, a searchable database of research opportunities on campus. Gregobagel/Getty Images The University of Washington's main campus in Seattle is home to one of the nation's best students in computer science programs. The Washington School of Information and the Paul G. Allen School of Computer Science and Engineering annually award more than 750 bachelor's degrees in computer science, computer science, and information technology. The university's highly valued CSE program has 20 fields of expertise, including natural language processing, robotics, data management and visualization, computer architecture, augmented and virtual reality, animation and game science, and machine learning. Washington is working to maintain strong relationships with the industry and has a robust program of industry partners with dozens of members, including Amazon, Cisco Systems, Facebook, Microsoft, Samsung and Starbucks. More than 100 companies attend CSE's autumn and winter quarries. Fair, philosophy and computer science double major, philosophy and computer science reddit, philosophy and computer science degree, philosophy and computer science masters, philosophy and computer science pdf, philosophy and computer science colburn, philosophy and computer science relation, philosophy and computer science topics

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