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Master’s Degree Offerings

Master of Science in Computer Science

Take a broad approach to studying computer science that directly reflects a career in the field. You’ll combine theoretical knowledge with technical experience across both broad computer science courses and specific electives on topics like human-computer interaction, robotics, data mining, autonomous systems, and more.

Master of Science in Data Science

Learn valuable job skills for in-demand data science careers by pursuing a full Master of Science in Data Science degree from the University of Colorado Boulder. This fully online MS in Data Science is an ideal choice for career-focused learners eager to benefit from a comprehensive, multi-disciplinary approach.

Master of Science in Electrical Engineering

A top 5 ranked online electrical engineering graduate program, offering transformative industry recognized credentials and performance-based admissions.

Master of Engineering in Engineering Management

This management degree program is ideal for anyone eager to grow their management careers in the dynamic engineering and technical sector. Whether you are a skilled engineer who wants to advance into high-impact

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management roles or a management professional looking to lead high-performing technical teams, you can earn your engineering management degree from one of the world's top institutions.

Master of Science in Artificial Intelligence

Position yourself on the leading edge of artificial intelligence education with master’s-level expertise in the most powerful technologies reshaping our world. The only English-language AI degree available on Coursera, the University of Colorado Boulder’s MS-AI gives you advanced theoretical understanding and practical skills in neural networks, deep learning, reinforcement learning and generative AI.

Graduate Certificate Offerings

Artificial Intelligence Graduate Certificate

Students will build a strong foundation in key AI topics: Machine Learning (ML), ethical issues, control in the design of robotic and intelligent systems; and vital topics in generative AI reinforcement learning, natural language processing, and autonomous systems.

Data Science Graduate Certificate

Develop interdisciplinary skills in data science and gain knowledge of statistical analysis, data mining, and machine learning from one of the nation’s top-ranked Tier 1 research institutions.

Engineering Management Graduate Certificate

In this three-specialization program, which integrates contemporary concepts of leadership, project management, and finance for technical managers, you will gain specific tools and knowledge to lead technical teams.

Industrial Internet of Things Graduate Certificate

Prepare to grow your design skills by learning about application areas, operating systems, and networking and wireless communication protocols used in IIoT deployments from a top 5 ranked online electrical engineering graduate program.

Power Electronics Graduate Certificate

Progress your career by learning the fundamentals of power electronics like power management, portable power, computer systems, medical applications, spacecraft systems, renewable energy & utilities.

Semiconductor Photonics Graduate Certificate

Learn the fundamental building blocks for solid-state photonic devices. It starts from the quantum theory of solids and fundamentals of semiconductor devices and on to cover advanced photonic devices such as solid-state lighting, semiconductor lasers, photodetectors, and energy conversion devices.

Design for the Circular Economy Graduate Certificate

Provides the skills and knowledge needed for technical professionals to serve as key contributors in sustainability initiatives and prepares learners to become future leaders or take on professional sustainability roles.

About University of Colorado Boulder
Founded in 1876 and nestled against the foothills of the Rocky Mountains, CU Boulder is a Tier 1 Research institution that proudly anchors one of the most entrepreneurial technology corridors in the United States. Our faculty have launched over 140 new start-ups, our researchers have filed for 1,276 patents in the last eight years, and 548 inventions have been delivered in the last five. We are the proud home of a community of scientists, scholars, and educators that includes five Nobel Laureates, eight MacArthur Genius Grant winners, four National Medal of Science awardees, and over eleven interdisciplinary research institutes.

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