



Cadence Academic and Educational Programs

Innovation Begins with Education

Engineers around the world rely on Cadence® proprietary software, hardware, design and verification IP, memory models, methodologies, and design services to create the integrated circuits and silicon chips that are inside your cell phone. And laptop. And digital camera. And just about every other electronic device that enriches your life. Using Cadence electronic design automation (EDA) technologies—like our low-power solution, mixed-signal design platform, digital end-to-end flow for advanced nodes, and high-speed printed circuit board design tools—companies can develop new products that support more applications and consume less energy. These innovations are driving the global economy, and they require the best and brightest workforce in every corner of the world.

Today's students are the next generation of innovators. And Cadence is committed to preparing them with the tools and training they need to thrive in the competitive semiconductor and electronics marketplace. For more than 15 years, Cadence has partnered with academic institutions and governmental organizations around the globe to implement special programs that expand the scope of their educational offerings. We provide future engineers with access to our cutting-edge software,

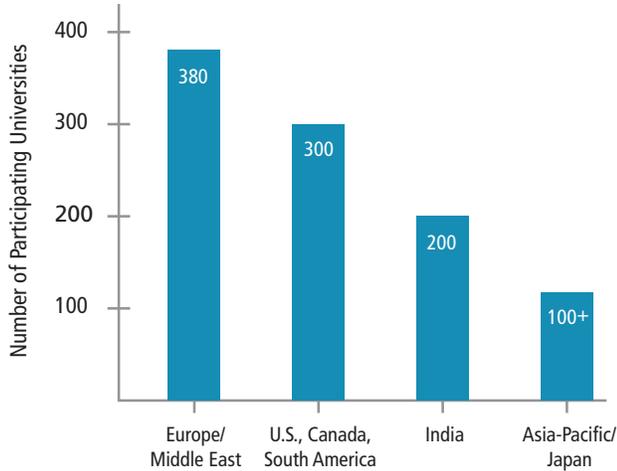
and we collaborate with instructors to develop a curriculum that applies design theories to real-world engineering challenges.

Cadence focuses on top emerging markets like Brazil, Russia, India, and China (BRIC), as well as promising potential in the Middle East, Africa, Latin America, and Eastern Europe. We build academic infrastructure that is both stable and sustainable, and we develop training programs that are customized to the needs of each region. Our programs help local economies become more robust with trained human capital, creating a more competitive environment with new employment opportunities. And by deepening the pool of engineering talent available worldwide, Cadence is ensuring the future success of the global electronics industry.

University Software Program

Cadence partners with more than 900 universities and technical institutes to provide them with access to our most advanced software. Each year, our University Software Program reaches more than 30,000 future engineers around the world. Making our software readily available for instruction and experimentation gives professors the flexibility to teach the latest techniques using world-class EDA tools.

Students will gain in-depth knowledge on how to solve today's toughest design challenges so they can quickly advance to building tomorrow's smaller, faster, more energy-efficient devices. Through this program, aspiring engineers get the hands-on experience they need to enter the competitive global job market with valuable skills.



Cadence Academic Network

Launched in Europe in 2007, the Cadence Academic Network is a group of carefully selected universities, professors, Cadence technology experts, and industry advisors who facilitate the exchange of engineering knowledge among academic communities and companies in the electronics and semiconductor industry.

Cadence provides network members with access to our software and delivers design methodology instruction according to each university's requirements. Program participants use these leading-edge Cadence tools and methods for training and research. They can then share the results of their work, develop best practices, and explore new approaches with others in the network. Each university focuses on a different design domain; select universities serve as program leads for a particular methodology and help steer the direction of research.

Network activities establish valuable links between academia and industry:

- Joint publishing of papers between students and professors
- Creating and presenting content for international technical conferences like CDNLive
- Collaborating on research projects with other universities and with Cadence R&D centers

- Co-authoring textbooks in Chinese on VLSI (very large-scale integration) fundamentals
- One-on-one consultation with esteemed professors in a highly specialized field
- Internships and guest professorships
- Access to exclusive online forums and technical support groups
- Recruitment into industry-leading companies and research centers

Methodology Leads Among European Institutes	
Advanced SoC Verification Techniques	University of Heidelberg
Advanced Verification Methodology	University of Bristol
Low-Power Design Methodology	Braunschweig University of Technology, Institute of Computer & Network Engineering
Analog/Mixed-Signal Design Methodology	University of Freiburg, Institute of Microsystem Technology
Radio Frequency Methodology	Ilmenau University of Technology, Institute for Microelectronic & Mechatronic Systems
Wireless Radio Design Methodology	KTH (Royal Institute of Technology) Stockholm, RaMSIS Group
PCB Co-Design Methodology	Politehnica University of Bucharest, Center for Electronics Technology & Interconnection

Cadence VLSI Certificate Program

To maintain a competitive advantage, companies look to hire graduates with practical skills. In 2010, Cadence launched the VLSI Certificate Program in India to bridge the gap between the theoretical academic environment and the practical industry environment. The program runs concurrently with the student's ongoing degree. Our incremental approach to training moves from very large-scale integration (VLSI) fundamentals to deeper exploration of focus areas to guided, hands-on design projects that are industry-relevant. By expanding their practical knowledge base, graduates arrive in the workplace with immediately deployable skills. And to further enrich the VLSI curriculum, Cadence has developed complementary initiatives such as "Train the Trainer" programs for faculty members.

Cadence Collaborates with World-Class Universities	
MIT	U.C. Berkeley
Harvard	Cornell
Stanford	Duke
Yale	Rice
Purdue	Princeton
Columbia	Texas A&M

Commercial IC Design Program

This program is our most customized offering. By combining integrated circuit (IC) design theory with real-world experience, the Commercial IC Design Program accelerates the development of marketable skills that students need before entering their local electronics ecosystem. It also exposes universities to state-of-the-art design methodologies.

The program focuses on two design disciplines: digital IC design and analog/mixed-signal design. After practical lectures and product training sessions, students apply the technology and various implementation approaches to a real-world project where they function as a junior design engineer on a team working under a technical lead. Seeing a real project go from concept to design is a valuable experience that greatly reduces the ramp-up phase for new hires. The courses are ideally offered in tandem with Master's work in electrical engineering, but can also be delivered as a standalone post-bachelor's degree program.

Our Commitment to Building an Electronics Ecosystem

As a leader in the electronics transformation sweeping the globe, Cadence is uniquely positioned to help academic institutions and governmental organizations expand and enrich their educational offerings. By working with local governments to build human capital and boost competitiveness, and by offering customizable programs, we're building a solid foundation for a truly global electronics ecosystem. And we continuously evaluate and enhance our programs to respond to design challenges as they change and grow. Just a few of these accomplishments include:

- Commercial IC Design Program with the Ministry of Science and Technology in Brazil
- VLSI Certificate Program with the National Institute of Science and Technology in India
- IC Design Training Center with Beijing City Government in China
- Extended Electronic Engineering Master's Degree Program with Moscow Institute of Electronic Technology in Russia
- Alba Innovation Centre's SoC Design Program with Scottish Enterprise in Scotland
- Train-the-Trainer Program in China and India

The Cadence commitment to education is creating job opportunities all over the world. The availability of a highly skilled workforce holds the key to sustained economic growth and opens the door to tomorrow's technological breakthroughs.



Cadence Design Systems enables global electronic design innovation and plays an essential role in the creation of today's electronics. Customers use Cadence software, hardware, IP, and expertise to design and verify today's mobile, cloud and connectivity applications. www.cadence.com