# **Gordon Moore**

**Gordon Earle Moore** (born January 3, 1929) is an American businessman, engineer, and the <u>co-founder</u> and chairman emeritus of <u>Intel Corporation</u>. He is also the author of <u>Moore's law</u>. [3][4][5][6][7] As of October 2019, Moore's net worth is reported to be \$11.9 billion. [8]

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## **Education**

Moore was born in <u>San Francisco</u>, <u>California</u> and grew up in nearby <u>Pescadero</u>, where his father was the county sheriff. He attended <u>Sequoia High School</u> in <u>Redwood City</u>. Initially, he went to <u>San Jose State College</u> (now University). After two years, he transferred to the <u>University of California</u>, <u>Berkeley</u> where he received a <u>B.S.</u> degree in chemistry in 1950.

In September 1950, Moore enrolled at the <u>California Institute of Technology</u>. While at Caltech, Moore minored in physics and received a <u>Ph.D.</u> in chemistry in 1954. Moore conducted postdoctoral research at the <u>Applied Physics Laboratory</u> at <u>Johns Hopkins University from 1953 to 1956. [10]</u>

## **Family**

Moore met his wife, Betty Irene Whitaker, while attending San Jose State College. They married in 1950.

## Scientific career

#### **Gordon Moore**



Moore in 2004

**Born** Gordon Earle Moore

January 3, 1929 San Francisco, California, U.S.

**Education** San Jose State

College University of

California, Berkeley

(BS)

California Institute of Technology (MS, PhD)

Known for Intel

Moore's law
Gordon and Betty
Moore Foundation

Awards National Medal of

Technology (1990) John Fritz Medal

(1993)

**IEEE Founders Medal** 

(1997)

Computer History
Museum Fellow

 $(1998)^{[1]}$ 

Othmer Gold Medal

(2001)

Perkin Medal (2004)[2]

Nierenberg Prize

(2006)

**IEEE** Medal of Honor

### **Fairchild Semiconductor Laboratory**

Moore joined <u>MIT</u> and Caltech alumnus <u>William Shockley</u> at the <u>Shockley Semiconductor Laboratory</u> division of <u>Beckman Instruments</u> but left with the "<u>traitorous eight</u>", when <u>Sherman Fairchild</u> agreed to back them and created the influential <u>Fairchild Semiconductor</u> corporation. [15][16]

#### Moore's law

In 1965, Moore was working as the director of research and development (R&D) at Fairchild Semiconductor. He was asked by Electronics Magazine to predict what was going to happen in the semiconductor components industry over the next ten years. In an article published on April 19, 1965, Moore observed that the number of components (transistors, resistors, diodes, or capacitors)<sup>[17]</sup> in a dense integrated circuit had doubled approximately every year and speculated that it would continue to do so for at least the next ten years. In 1975, he revised the forecast rate to approximately every two years. [18] Carver Mead popularized the phrase "Moore's law." The prediction has become a target for miniaturization in the semiconductor industry and has had widespread impact in many areas of technological change. [3][16]

## **Intel Corporation**

In July 1968, Robert Noyce and Moore founded NM Electronics, which later became Intel Corporation. [19][20] Moore served as executive vice president until 1975 when he became president. In April 1979, Moore became chairman and chief executive officer, holding that position until April 1987, when he became chairman. He was named chairman emeritus in 1997.[21] Under Noyce, Moore, and later Andrew Grove, Intel has pioneered new technologies in the areas of computer memory, integrated circuits, and microprocessor design.[20]

## **Philanthropy**

In 2000, Moore and his wife established the <u>Gordon and Betty Moore Foundation</u>, with a gift worth about \$5 billion. Through the Foundation, they initially targeted environmental conservation, science, and the San Francisco Bay Area. [22]

The foundation gives extensively in the area of environmental conservation, supporting major projects in the Andes-Amazon Basin and the San Francisco Bay area, among others. [23] Moore was a director of Conservation International for some years. In 2002, he and Conservation International senior vice president Claude Gascon received the Order of the Golden Ark from Prince Bernhard of Lippe-Biesterfeld for their outstanding contributions to nature conservation. [24]

(2008)Presidential Medal of Freedom Scientific career **Fields** Entrepreneur Electrical engineering **Institutions** Intel Gordon and Betty Moore Foundation California Institute of Technology Johns Hopkins **University Applied Physics Laboratory Thesis** I. Infrared Studies of Nitrous Acid, The Chloramines and Nitrogen Dioxide II. Observations Concerning the **Photochemical** Decomposition of Nitric Oxide (http://se arch.proquest.com/do cview/302028299) (195 Website Official website (htt p://intel.com/technolo gy/mooreslaw)

#### External video



"Rather than becoming something that chronicled the progress of the industry, it became something that drove it." (https://www.youtube.com/watch?v=EzyJxAP6AQo), ASML's 'Our

Moore has been a member of Caltech's board of trustees since 1983, chairing it from 1993 to 2000, and is now a life trustee. [25][26][27] In 2001, Moore and his wife donated \$600 million to Caltech, at the time the largest gift ever to an institution of higher education. [28] He said that he wants the gift to be used to keep Caltech at the forefront of research and technology. [22]

In December 2007, Moore and his wife donated \$200 million to Caltech and the University of California for the construction of the Thirty Meter Telescope (TMT), expected to become the world's second largest optical telescope once it and the European Extremely Large Telescope are completed in the mid-2020s. The TMT will have a segmented mirror 30 meters across and be built on Mauna Kea in Hawaii. This mirror will be nearly three times the size of the current record holder, the Large Binocular Telescope. The Moores, as individuals and through their foundation, have also, through a series of gifts and grants, given over \$110 million to the University of California, Berkeley.

In addition, through the Foundation, his wife created the Betty Irene Moore Nursing Initiative, targeting nursing care in the San Francisco Bay Area and Greater Sacramento. [22][31] In 2007, the foundation pledged \$100 million over 11 years to establish a nursing school at the University of California, Davis. [30]

Stories', Gordon Moore about Moore's Law, ASML Holding

### **External video**



"This powerful technology has allowed us to make more and more complex and high-performing circuits... They're the basis of everything electronic we have, unprecedented in human history." (https://vimeo.com/70293585), Scientists You Must Know: Intel founder Gordon Moore, Science History Institute

In 2009, the Moores received the Andrew Carnegie Medal of Philanthropy. [22][32]

## Scientific awards and honors

Moore has received many honors. He became a member of the National Academy of Engineering in 1976. [33]

In 1990, Moore was presented with the <u>National Medal of Technology and Innovation</u> by President <u>George H.W. Bush</u>, "for his seminal leadership in bringing American industry the two major postwar innovations in microelectronics – large-scale integrated memory and the microprocessor – that have fueled the information revolution." [34]

In 1998, he was inducted as a Fellow of the <u>Computer History Museum</u> "for his fundamental early work in the design and production of semiconductor devices as co-founder of Fairchild and Intel." [35]

In 2001, Moore received the Othmer Gold Medal for outstanding contributions to progress in chemistry and science. [36][37]

Moore is also the recipient of the <u>Presidential Medal of Freedom</u>, the United States' highest civilian honor, as of 2002. He received the award from President <u>George W. Bush</u>. In 2002, Moore also received the <u>Bower Award for Business Leadership</u>.

In 2003, he was elected a Fellow of the American Association for the Advancement of Science.

Moore was awarded the 2008 <u>IEEE Medal of Honor</u> for "pioneering technical roles in integrated-circuit processing, and leadership in the development of MOS memory, the microprocessor computer, and the semiconductor industry." Moore was featured in the documentary film <u>Something Ventured</u> which premiered in 2011.

In 2009, Moore was inducted into the National Inventors Hall of Fame.

He was awarded the 2010 Future  $\underline{\text{Dan David Prize}}$  for his work in the areas of Computers and Telecommunications. [40]

The library at the <u>Centre for Mathematical Sciences</u> at the <u>University of Cambridge</u> is named after him and his wife Betty, [41] as are the Moore Laboratories building (dedicated 1996) at Caltech and the Gordon and Betty Moore Materials Research Building at Stanford.

The Electrochemical Society presents an award in Moore's name, the Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology, every two years to celebrate scientists' contributions to the field of solid state science. The Society of Chemical Industry (American Section) annually presents the Gordon E. Moore Medal in his honor to recognize early career success in innovation in the chemical industries. [43][44]

He was awarded the UCSF medal in 2016. [45]

### Personal life

Moore is an avid sport fisherman and actively pursues any type of fishing. He has extensively traveled the world, catching species from  $\underline{\text{black marlin}}$  to  $\underline{\text{rainbow trout}}$ . He has said his conservation efforts are partly inspired by his interest in fishing and his time spent outdoors. [46]

In 2011, Moore's genome was the first human genome sequenced on <u>Ion Torrent's Personal Genome</u> Machine platform, a massively parallel sequencing device, which uses <u>ISFET</u> biosensors. [47]

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Business positions		
Preceded by Robert Noyce	<b>CEO, Intel</b> 1975–1987	Succeeded by Andrew Grove

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