

INSPIRING WOMEN OF SCIENCE & TECHNOLOGY YESTERDAY AND TODAY

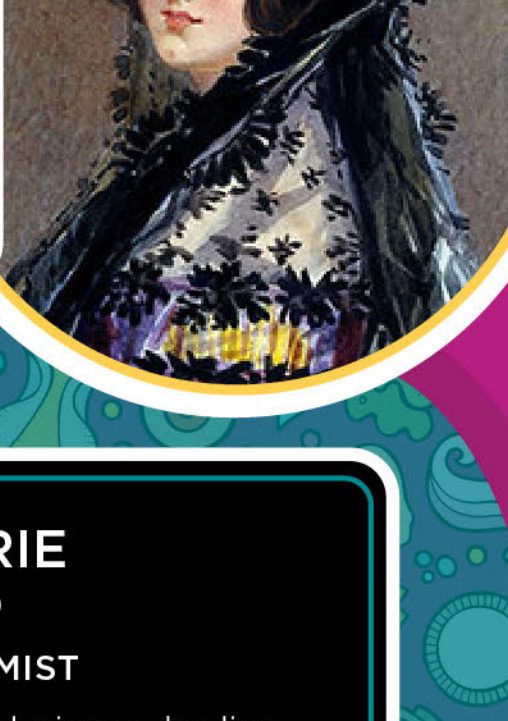
Women have played critical roles in science and technology, but their achievements throughout the years have often been ignored or downplayed. One way to encourage more women to participate in STEM is to highlight the many who have already laid the groundwork for them, along with the many women who are breaking new ground in the sciences now.

We're highlighting some inspirational women in STEM—pioneers, advocates, and visionaries who have paved the way for women scientists in the field today and still to come.



ADA LOVELACE
(1815–1852)
MATHEMATICIAN, COMPUTER SCIENTIST

She wrote the world's first computer programs.



MARIE CURIE
(1867–1934)
PHYSICIST, CHEMIST

She identified two new elements—polonium and radium—and is the only woman to have received two Nobel Prizes.



EMMY NOETHER
(1882–1935)
MATHEMATICIAN

Created the theorem about continuous symmetries that established the mathematical basis for Albert Einstein's theory of relativity.



HELEN TAUSSIG
(1898–1986)
PEDIATRIC CARDIOLOGIST

She developed a surgical procedure that saved the lives of thousands of children born with heart defects.



RACHEL CARSON
(1907–1964)
MARINE BIOLOGIST, ECOLOGIST

She launched the environmental movement by writing about the harm caused by pesticides.



RITA LEVI-MONTALCINI
(1909–2012)
NEUROBIOLOGIST

She was the first researcher to discover the existence of a biological factor that promotes cell growth and is a Nobel Prize recipient.



CHIEN-SHIUNG WU
(1912–1997)
PHYSICIST

She performed an experiment that shattered one of the fundamental laws of nature, the principle of the conservation of parity.



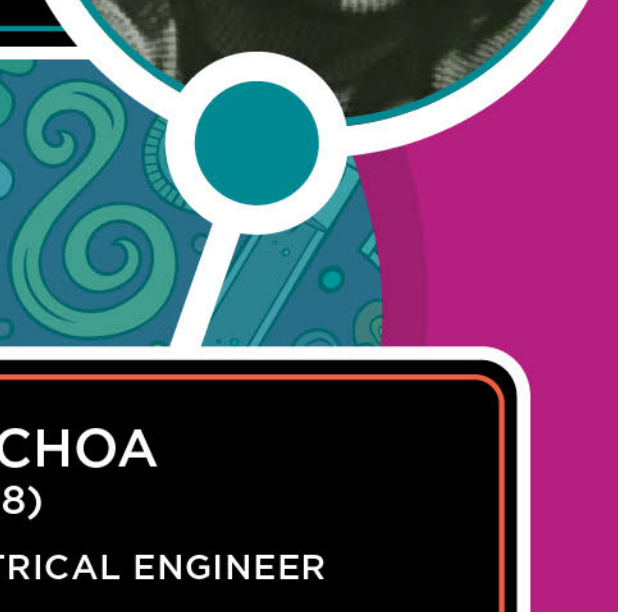
KATHERINE JOHNSON
(1918–2020)
MATHEMATICIAN

She was a pioneer of the U.S. space program—she predicted the flight paths of satellites and spacecraft.



EUGENIE CLARK
(1922–2015)
MARINE BIOLOGIST, WRITER

She discovered numerous new species and became an expert on sharks.



ELLEN OCHOA
(b. 1958)
PHYSICIST AND ELECTRICAL ENGINEER

She was an astronaut on three spaceflights and was the first Hispanic person and second woman to be named director of NASA's Johnson Space Center.



CYNTHIA BREAZEAL
(b. 1968)
ROBOTICIST

She is a pioneer of social robotics and human-robot interaction.



DISCOVER WOMEN SCIENTISTS AROUND THE WORLD WHO ARE PAVING THE WAY TODAY:

LING CHEN

PROFESSOR OF GEOPHYSICS AT THE
INSTITUTE OF GEOLOGY AND GEOPHYSICS,
CHINESE ACADEMY OF SCIENCES

"For me, the purpose of exploring Mars is to understand why there is life on Earth, how the Earth became habitable, and how to make the Earth continue to be habitable."



VALENTINA PERRICONE

MARINE BIOLOGIST AND BIOMIMETIC CONSULTANT
IN THE DEPARTMENT OF ENGINEERING AT THE
UNIVERSITÀ DEGLI STUDI DELLA CAMPANIA
LUIGI VANVITELLI

"...there is the mistaken belief that knowledge of the world is complete, and scientific laws are perfect and absolute. Young students are not aware of the fact that there are infinite possibilities to discover new things and hidden laws in the natural world, and that they have the potential to lead new awareness and develop new technologies."



SOPHIE J. NIGHTINGALE

LECTURER IN THE DEPARTMENT OF PSYCHOLOGY
AT LANCASTER UNIVERSITY IN THE UNITED KINGDOM

"It's easy to think that research is quick and easy; in fact, good science takes time and involves hard, detailed work. It's crucial to conduct research with integrity, which involves thinking carefully about the research process from start to end to ensure the research is ethical and that the findings are valid and representative."



CHIARA CIRELLI

PROFESSOR IN THE PSYCHIATRY DEPARTMENT AT
THE UNIVERSITY OF WISCONSIN-MADISON (UWM)
AND A PRINCIPAL INVESTIGATOR AT UWM'S
CENTER FOR SLEEP AND CONSCIOUSNESS

"Generally speaking, I hope our study and many other studies on sleep prove, in a way that becomes more and more compelling, that sleep is essential, and that even if we still do not understand exactly why, and how, sleep is crucial for our health, we should respect our sleep and not consider it 'a waste of time.'"



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