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*Inspiring the next  
generation of female  
engineers | Debbie Sterling  
| TEDxPSU 5 Groundbreaking*

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Women in Engineering Female Engineers Share Experiences In A Male-Dominated Field  
Great Women in Engineering History Women in History of STEM - Edith Clarke - First Female Electrical Engineer  
Dr. Martine Rothblatt – The Incredible Polymath of Polymaths | The Tim Ferriss Show  
How I succeeded as a woman in engineering:  
Cassandra Cole at TEDxUW  
~~International top 20 female engineers 2019~~ Women in STEM: Female Engineers of the Past and Future, hosted by the Women's Engineering Society  
Being a Female Engineer - How to Succeed as a Women and the Need for More Girls in Stem Inspiring

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the next generation of  
female engineers | Morgan  
DiCarlo | TEDxSBU **Advice for  
Future Female Engineers**

*Women in science who changed  
the world*

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Advice for Female Engineers

Do Female Engineers Exist ?

Answered - Deleted Scenes

Alien Covenant and Analysis

Dream Big - Meet the Women

Engineers Uncovering

~~bravery: My life as a female  
engineer | Tamar~~

~~Makharashvili |~~

~~TEDxMissouriS\u0026T~~

~~Inspiring young female~~

~~engineers Women in Science~~

~~and Engineering: A~~

~~historical overview A Young~~

~~Female Civil Engineering CEO~~

~~Shares her Story Female~~

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### ~~Engineers In History~~

In 1905, Nora Stanton Blatch earned a degree in engineering from Cornell University. She was the granddaughter of... In 1906, Alice Perry became the first woman in Europe to graduate with a degree in civil engineering from Queen's... In 1918, Dorothy Hall Brophy was the first woman to receive a ...

### ~~History of Women Engineers— All Together~~

7 Famous Female Engineers in History 1. Edith Clarke. In 1918, Edith Clarke became the first woman to earn an electrical engineering degree from the... 2. Emily

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Roebing. Emily Roebing is evidence that behind every good man stands a great and gutsy woman. Roebing never... 3. Martha Coston. Martha ...

### ~~7 Famous Female Engineers in History - WorkflowMax~~

The history of women in engineering predates the development of the profession of engineering. Before engineering was recognized as a formal profession, women with engineering skills often sought recognition as inventors. During the Islamic Golden Period from the 8th century until the 15th century there were many

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Muslim women who were inventors and engineers, such as the 10th-century ...

~~History of women in engineering - Wikipedia~~

Emily Warren is one of the most famous female engineers for her dedication to completing the Brooklyn Bridge. After her husband, a civil engineer named Washington Roebling, developed a crippling decompression disease, Emily stepped into the role and became known as the first woman field engineer in history.

~~Most Famous Female Engineers in History - Viva~~

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List of famous female engineers, listed by their level of prominence with photos when available. This greatest female engineers list contains the most prominent and top females known for being engineers. There are thousand of females working as engineers in the world, but this list highlights only the most notable ones.

~~Famous Female Engineers |  
List of Top Female Engineers~~  
8 Famous Female Engineers in  
History 1. Emily Roebling  
(1803-1903) Emily Roebling  
stepped in as the first  
woman field engineer and  
technical leader of the...



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2. Beulah Louise Henry  
(1887-1973) Beulah Henry was  
known as “the lady Edison”  
in the 1920s and 1930s for  
the many... 3. Hedy Lamarr  
...

## ~~8 Famous Female Engineers in History - Ivey Engineering~~

Great women engineers who  
changed the world! Martha J.  
Coston (1826 – 1904) Emily  
Roebbling (1843 – 1903) Edith  
Clarke (1883 – 1959) Enedina  
Marques (1913 – 1981) Hedy  
Lamarr (1914 – 2000) Aïda  
Espínola (1920 – 2015)  
Stephanie Kwolek (1923 –  
2014)

~~Great women engineers who  
changed the world! | Mundo~~

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0€€

Women Engineers 1 Lisa Su. 2  
Judith Resnik. Died: January  
28, 1986 3 Lisa Nowak. 4  
Carol Vorderman. Birthdate:  
December 24, 1960 5 Julie  
Payette. 6 Srinidhi Shetty.  
Birthdate: October 21, 1992  
7 Ellen Ochoa. Who Is The  
Most Popular BTS Member? 8  
Loni Love. Birthdate: July  
12, 1971 9 Ginni ...

~~Women Engineers — Famous  
People in History, Famous  
People ...~~

Nancy D. Fitzroy, Yvonne C.  
Brill, Sally Ride, Kate  
Gleason, and Lillian Moller  
Gilbreth are five  
trailblazers who entered the  
profession of engineering at

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a time when opportunities for women were limited, but despite all odds they went on to change history.

### ~~5 Women Pioneers in Engineering — ASME~~

In 2014, the U.S. Census Bureau published a graph displaying 13 engineering degrees by gender—the average of female engineers across these fields was only 17%. Even in technical startups, there ...

### ~~A Brief History of Brilliant Women | Machine Design~~

Ada Lovelace pioneered algorithms on the Analytical Engine. Today is International Women in

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Engineering Day, with a number of events running across the country and worldwide. We've highlighted ten women whose discoveries and inventions have changed the world.

~~Ten female engineers whose inventions changed the world~~  
eXXec is the Society of Women Engineers' Executive Leadership Program, created to deliver actionable high-performance senior-level executives. The objective of SWE's Executive Leadership Program is to provide a holistic approach to professional development for women executives in engineering. eXXec takes

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place June 14-17, 2021.

~~Society of Women Engineers~~  
International Women in  
Engineering Day, is an  
international awareness  
campaign to raise the  
profile of women in  
engineering and focuses  
attention on the amazing  
career opportunities  
available to girls in this  
exciting industry. It  
celebrates the outstanding  
achievements of women  
engineers throughout the  
world.

~~6 female engineers whose  
inventions changed the world~~  
Women only make up 24% of  
the computing workforce -

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and that number is declining. In fact, four out of ten women are leaving STEM careers despite engineering and computer science jobs being some ...

~~The Future Of Women  
Engineers - Forbes~~  
Historical Engineers. Long before women engineers were considered something special, some amazing women were doing great things to pave the way. Although their contributions are sometimes unrecognized, women with a little ingenuity have always had the power to do great things. Also learn more in this fun video produced for EngineerGirl by George

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Retelas with his digital art students at SAE Institute.

## ~~EngineerGirl — Historical Engineers~~

The history of women as designers and builders of machines and structures predates the development of engineering as a profession. Prior to the creation of the term "engineer" in the 11th century, women had contributed to the technological advancement of societies around the globe. By the 19th century, women who participated in engineering work often had academic training in mathematics or science.

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~~Women in engineering~~  
~~Wikipedia~~

Gilbreth was the first to earn a degree in industrial psychology, getting her doctorate from Brown University in 1915. She became the first female member of the American Society of Mechanical Engineers in 1926 and the first female professor at the School of Engineering, Purdue University, in 1935.

~~10 Women Who Broke New  
Ground in Engineering~~

Women in Space are the historic heroines, the modern marvels working in the space industry today and the female engineers who



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help propel the astronauts into space. 1770-1852 Sarah Guppy (bridge patentee) She was an inventor who contributed to the design of Britain's infrastructure and developed several domestic products.

How women coped with both formal barriers and informal opposition to their entry into the traditionally masculine field of engineering in American higher education. Engineering education in the United States was long regarded as masculine territory. For decades,

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women who studied or worked in engineering were popularly perceived as oddities, outcasts, unfeminine (or inappropriately feminine in a male world). In *Girls Coming to Tech!*, Amy Bix tells the story of how women gained entrance to the traditionally male field of engineering in American higher education. As Bix explains, a few women breached the gender-reinforced boundaries of engineering education before World War II. During World War II, government, employers, and colleges actively recruited women to train as engineering aides,

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channeling them directly into defense work. These wartime training programs set the stage for more engineering schools to open their doors to women. Bix offers three detailed case studies of postwar engineering coeducation. Georgia Tech admitted women in 1952 to avoid a court case, over objections by traditionalists. In 1968, Caltech male students argued that nerds needed a civilizing female presence. At MIT, which had admitted women since the 1870s but treated them as a minor afterthought, feminist-era activists pushed the school to welcome more women and

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take their talent seriously. In the 1950s, women made up less than one percent of students in American engineering programs; in 2010 and 2011, women earned 18.4% of bachelor's degrees, 22.6% of master's degrees, and 21.8% of doctorates in engineering. Bix's account shows why these gains were hard won.

Women in Engineering: Pioneers and Trailblazers introduces the visionary women who opened the door for today's female engineers. Pioneers such as Emily Roebling, Kate Gleason, Edith Clarke, and Katherine Stinson come to

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life in this anthology of essays, articles, lectures, and reports. In this book, the significant contributions women have made to engineering, in areas as diverse as construction management, environmental protection, and industrial efficiency, are finally placed in their proper historical context. Studies on women engineers in the 1920s and in the years following World War II, underscore how far women have progressed in engineering, and how far they have to go. With selections that span a century of historical and social analysis, Women in

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Engineering: Pioneers and Trailblazers and its companion volume, Women in Engineering: Professional Life, present a range of perspectives on women in engineering that will be of interest to historians, engineers, educators, and students. About the Author Margaret E. Layne, P.E., is project director of Advance VT, a program created at Virginia Tech to increase the participation and advancement of women in academic science and engineering careers.

'Women have won their political independence. Now is the time for them to

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achieve their economic freedom too.' This was the great rallying cry of the pioneers who, in 1919, created the Women's Engineering Society. Spearheaded by Katharine and Rachel Parsons, a powerful mother and daughter duo, and Caroline Haslett, whose mission was to liberate women from domestic drudgery, it was the world's first professional organisation dedicated to the campaign for women's rights. *Magnificent Women and their Revolutionary Machines* tells the stories of the women at the heart of this group – from their success in fanning the

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flames of a social revolution to their significant achievements in engineering and technology. It centres on the parallel but contrasting lives of the two main protagonists, Rachel Parsons and Caroline Haslett – one born to privilege and riches whose life ended in dramatic tragedy; the other who rose from humble roots to become the leading professional woman of her age and mistress of the thrilling new power of the twentieth century: electricity. In this fascinating book, acclaimed biographer Henrietta Heald also illuminates the era in which



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the society was founded. From the moment when women in Britain were allowed to vote for the first time, and to stand for Parliament, she charts the changing attitudes to women's rights both in society and in the workplace.

The gender gap in science, technology, engineering and mathematics (STEM) varies greatly from country to country, and the number of Japanese women in these fields remains relatively few. This prompts us to ask why the proportion of female scientists in Japan is still remarkably low and what measures the government,

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universities and research institutes are taking to address this issue. This book sheds light on historical developments and the current gender equality situation in Japan, through the lens of women in STEM. It shows how a policy of gender equality in science and engineering has been introduced through the coordinated efforts of academia, scientific societies and the government, and how this has led to a slow but steady increase in female representation. The book draws on extensive data including interviews with government officials,

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scientists and educators in Japan to provide a revealing case study on how the underrepresentation of women in the fields of science, technology and engineering has been approached and dealt with by a national government. It heralds a new era for female scientists, by showcasing several programmes undertaken by government, universities and national research institutions to support multiple career paths for and the progression of female scientists in Japan. Tracing the historical development of Japan's policies towards women in science and education, this

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book will be welcomed by students and scholars interested in Japanese studies, comparative social policy, gender studies, employment and the history of science and technology.

Her goal: to become a world-renowned biomedical engineer working with scientific societies to improve the role of women in scientific fields and the way scientists and engineers integrate people and society into their work. By 1979, this goal had become a reality. In her memoirs, esteemed biomedical engineer Monique Frize recalls the events that taught her to

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over-come obstacles, become more resilient, recognize the importance of mentors and role models, and remain focused on the future. She also speaks of her appreciation of the critical role played by family and friends in maintaining the strength and determination required to succeed—and, above all, to succeed in a man's world. Frize fondly remembers her youth in Montréal and in Ottawa, as well as her marked interest for math and science. Her entry into the world of engineering was both romantic—she met her husband—and tragic. She recounts the prejudice and

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stereotypes she faced. She pursued a challenging and rewarding international career in a very specialized field at a time when this was still very uncommon for a woman, acceding at the very moment of the tragic École Polytechnique massacre to key positions in support of women in science. These memoirs are sure to inspire young women who have a dream, and more specifically those who wish to enter sciences and engineering.

This volume captures the impact of women's research on the public health and environmental engineering profession. The volume is

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written as a scholarly text to demonstrate that women compete successfully in the field, dating back to 1873. Each authors' chapter includes a section on her contribution to the field and a biography written for a general audience. This volume also includes a significant representation of early women's contributions, highlighting their rich history in the profession. The book covers topics such as drinking water and health, biologically-active compounds, wastewater management, and biofilms. This volume should be of interest to academics,

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researchers, consulting engineering offices, and engineering societies while also inspiring young women to persist in STEM studies and aspire to academic careers. Features a blend of innovations and contributions made by women in water quality engineering, as well as their path to success, including challenges in their journeys Presents an opportunity to learn about the breadth and depth of the field of water quality Includes a history of women in water quality engineering as well as research in current issues such as urban water quality, biologically-



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active compounds, and  
biofilms

The riveting true story of the women who launched America into space. In the 1940s and 50s, when the newly minted Jet Propulsion Laboratory needed quick-thinking mathematicians to calculate velocities and plot trajectories, they didn't turn to male graduates. Rather, they recruited an elite group of young women who, with only pencil, paper, and mathematical prowess, transformed rocket design, helped bring about the first American satellites, and made the exploration of the

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solar system possible. For the first time, *Rise of the Rocket Girls* tells the stories of these women -- known as "human computers" -- who broke the boundaries of both gender and science. Based on extensive research and interviews with all the living members of the team, *Rise of the Rocket Girls* offers a unique perspective on the role of women in science: both where we've been, and the far reaches of space to which we're heading. "If *Hidden Figures* has you itching to learn more about the women who worked in the space program, pick up Nathalia Holt's lively, immensely readable

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history, Rise of the Rocket  
Girls." -- Entertainment  
Weekly

This volume will be of  
interest to STEM scholars  
and students, as well as  
policymakers, corporations,  
and higher education  
institutions.

The Bold and the Brave  
investigates how women have  
striven throughout history  
to gain access to education  
and careers in science and  
engineering. Author Monique  
Frize, herself an engineer  
for over 40 years,  
introduces the reader to key  
concepts and debates that  
contextualize the obstacles

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women have faced and continue to face in the fields of science and engineering. She focuses on the history of women's education in mathematics and science through the ages, from antiquity to the Enlightenment. While opportunities for women were often purposely limited, she reveals how many women found ways to explore science outside of formal education. The book examines the lives and work of three women – Sophie Germain, Mileva Einstein, and Rosalind Franklin – that provide excellent examples of how women's contributions to science have been dismissed,

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ignored or stolen outright. She concludes with an in-depth look at women's participation in science and engineering throughout the twentieth century and the current status of women in science and engineering, which has experienced a decline in recent years. To encourage more young women to pursue careers in science and engineering she advocates re-gendering the fields by integrating feminine and masculine approaches that would ultimately improve scientific and engineering endeavours.

The Society of Women

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Engineers (SWE) is the world's largest advocate and catalyst for change for women in engineering and technology. 2015 marks the 65th anniversary of SWE and in honor of this exciting milestone, the Society created "We Built This: a Look at the Society of Women Engineers' First 65 years," a scrapbook of stories and images from the SWE archives. From the Foreword by Elizabeth Bierman, FY15 SWE President We set out hoping to boil down the sprawling SWE archives into one scrapbook that takes you on a journey through SWE's history. After all, there's something magical about

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reading through a scrapbook and having so many pieces of history, full of so many memories, laid out before you. That's the feeling we got when we opened the archives, and it's the feeling we wanted you to have when you open this book. Joy and heartache, triumph, tribulations and perseverance, grace and the kind of tenacity you could only find in the heart of a woman engineer-you'll find it all here. The history of our Society is more than a straightforward chronology of things that have happened. Our history is the result of the choices we've made, the small moments with

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friends we shared, our achievements and accomplishments. SWE's history is not something that merely happened; it's what we built for ourselves.

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