# **Celebrating Women in Science**



# International women's day 2024

As we celebrate International Women's Day on 8<sup>th</sup> March 2024, CSR is shining a spotlight on the extraordinary contributions of women who have left their mark on the world of science. From unravelling mysteries in laboratories to pioneering groundbreaking discoveries, these women have defied stereotypes to become trailblazers in their respective fields.

In this post, we celebrate the diverse stories of women scientists who have overcome challenges, shattered glass ceilings and continue to inspire the next generation of world-class scientists—you! We will look at the trailblazers of the past, heroes of the present and what you can do for women scientists of the future.

Join us in honoring International Women's Day as we acknowledge the resilience, brilliance and lasting impact of women in science. This day serves as a reminder that the pursuit of knowledge is enriched when everyone, regardless of gender, can contribute their unique perspectives and talents to the scientific community.

#### The Past

# **Women in Science – The Trailblazers**



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#### **Rosalind Franklin**

Rosalind Franklin took a picture of DNA, Photo 51, that changed our understanding of the structure of DNA. Snubbed for the Nobel Prize in 1962, Her story is one of the most wellknown and shameful instances of a researcher being robbed of credit. Let's celebrate her now.

WOMEN IN POWER

#### Katherine Johnson

Katherine Johnson (one of the three black female mathematicians portrayed in the film Hidden Figures) made calculations for NASA that were instrumental to America's first manned spaceflight in 1960, the orbital mission of John Glenn in 1962 and the Apollo 11 lunar mission in 1969.



#### **CAN'T SILENCE GENIUS**

#### **Chien-Shiung Wu**

Few have heard of Chien-Shiung Wu, also known as the "First Lady of Physics" She made history when she disproved the hypothetical law of conservation parity, a bedrock law of physics that many others were too afraid to test.

#### May-Britt Moser

May-Britt Moser, modern heroine, pioneered research on the brain's mechanism for representing space. She won the Nobel Prize in 2014 for her discovery of grid cells in the entorhinal cortex and several other space representing neurons that make up the positioning system of the brain.



# SCIENCE NOT SILENCE

science, quantum theory, theoretical physics as it applies to the origin of the Universe.



#### Mae Jemison

Mae Jemison was not only the first black woman to travel in space but also an accomplished engineer and physician. On September 12, 1992, she flew into space on the Shuttle Endeavour for mission STS-47.

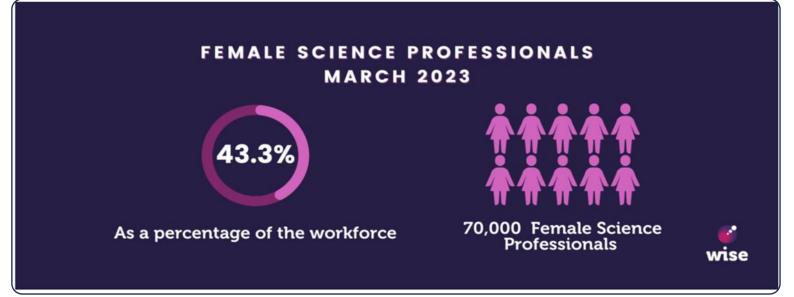
https://www.beyondcurie.com/march-for-science-posters/

#### **The Present**

## Women in Science Award Winners 2023



### Female Science Workforce 2023



#### **The Future**

## **Inspiring The Next Generation**



CSR 2023 Community Award Winner Profile

#### Oliwia Zawadzka

19yrs

Laboratory Technician

Cambridge University Cavendish Laboratory

L3 Applied Science Apprentice

When looking to the future it is important to acknowledge the part we can all play in improving the landscape for women in science by inspiring the next generation to consider a career in STEM.

Outreach plays a crucial role in empowering women in science by challenging stereotypes, inspiring interest, building confidence, creating support networks and addressing the underrepresentation of women in STEM fields. Here we celebrate CSR apprentice and winner of the CSR 2023 Community Award Oliwia Zawadzka for her contribution to outreach in the community. Here's what Oliwia had to say about the importance of these outreach activities:

"For my outreach, I've been involved here in our physics department where I personally spoke to around 600 students across three days. I produced a presentation where I spoke about gender inequalities in physics, studies, apprenticeships and what we do in our department. A lot of these things came as a surprise to our younger students from around 14 to 16 years old who were not aware of science apprenticeships and general inequalities in the physics sector.

I also work closely with our outreach coordinator on popularising apprenticeships and what they can provide for students who choose to go this way. I feel very strongly about being a woman in science so I'm working really hard on engaging the younger generation in physics and science apprenticeships".

# **Further Reading**

#### Women scientists are challenging the STEM career stereotype and inspiring the next generation



Two women in senior STEM roles reveal how their careers have developed, and why mentorship, inspiring role models and inclusiveness have been key to their success.

https://www.womeninstem.co.uk/b reaking-stereotypes/womenscientists-are-challenging-the-stemcareer-stereotype-and-inspiring-thenext-generation/

Visit the Women Who Changed Science Nobel Prize page to read the incredible stories of the female recipients. Take the short quiz to match with a laureate whose interests and ideals most align with your own.

https://www.nobelprize.org/women whochangedscience/stories

## The Nobel Prize – Women who





Although research has identified challenges faced by women in STEM fields and strategies to improve their experience, little research has examined which strategies undergraduate women would recommend. In the current study, undergraduate women in STEM wrote letters to younger women in STEM about their experiences.

https://www.nobelprize.org/women whochangedscience/stories