

Female Engineers

Beauty and Brains!



Female Contributors Throughout History

AMANDA THEODOSIA JONES

Vacuum method of food canning, a process that completely changed the food processing industry.

ELLEN SWALLOW RICHARDS

Pioneered the field of environmental engineering in water contamination. Urged tighter controls over solid waste disposal and air, food, and water purity.

MARY ENGLE PENNINGTON

Insulated train car cooled with ice beds, allowing for the first time the long distance transportation of perishable food.

MARY ANDERSON

Windshield wipers on automobiles, by 1913 they were standard equipment on all American cars.

BEULAH LOUISE HENRY

Bobbinless lockstitch sewing machine
Vacuum ice cream freezer
Doll with a radio inside
Typewriter that made multiple copies without carbon paper.

STEPHANIE KWOLEK

Polymade solvent leading to the production of Kevlar (used in canoe hulls, auto bodies, and bullet proof vests).

RUTH HANDLER

Barbie doll
Prosthesis for Mastectomy patients

DR. BONNIE J. DUNBAR

Ceramic tiles that enable the space shuttle to survive reentry.

ELSA GARMIRE

Advances in optical devices and quantum electronics that made the commercial use of lasers feasible. (used for CD players, printers, and communication)

Are You a People Person?

Engineering technicians with the ability to communicate and get along with others will excel in today's team-based workplace.

Patents held by Women

MARY KIES
Pyrotechnic Night Signals

SARA P. MATHER
Submarine Telescope

MARGARET KNIGHT
Rotary engine
Compound Rotary engine
Sole Cutting machine

AUGUSTA M. RODGERS
Car heater
Improvement in conveyors of smoke
and cinders for locomotives.

MARIA L. GHIRARDINI
Rails for street railways

MARY E. WALTON
Deflecting smoke stack emissions
through water tanks used on locomotives.
Sound-dampening system for elevated
railways.

MARIA E. BEASLEY
Life-raft

ANNA CONNELLY
Fire escape

LETTIA GEER
Medical syringes

IDA R. FORBES
Electric hot water heater

OLIVE DENNIS
Ventilator

EVELYN BEREZIN
Data processing system

PHYLLIS HERSH
Bi-directional magnetic tape

PATRICIA BATH
Laser instrument for removing
cataract lenses.

PATRICIA BILLINGS
An indestructible and fireproof
building material called Geobond. (May be
used to replace asbestos)

BETTE NESMITH GRAHAM
Liquid paper (originally called
Mistake Out)

ANN TSUKAMOTO
Co-patentee of a process to isolate
the human stem cell.

PATSY SHERMAN
Scotchgard Fabric Protector

VIRGIE M. AMMONS
Fireplace Damper

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