

## CASE STUDY

# Suzie Schlechter

## Senior Design Engineer



### What does Suzie actually do?

Senior Design Engineer - responsible for Maintain Design Integrity across site. Manages the work within the design engineering section of the Reliability and Lifetime group, mentors less experienced team members on various safety case roles and delivers training to safety case practitioners in a range of departments (engineering, investment delivery, nuclear safety, Technical Advice Group).

### What is important/valuable about Suzie's work?

Suzie is responsible for the day-to-day running of the

design engineering section of the Reliability and Lifetime group. Suzie sets the standards expected for all safety case practitioners on site (through training and mentoring as well as weekly reporting and accountability) to ensure that the station continues to apply the correct rigour to plant modifications and support maintenance of nuclear safety margins.

### What is exciting about Suzie's work?

The role of senior design engineer is very varied and includes responsibility for maintain design integrity activities across site, and so Suzie has oversight of modifications for the work week planning cycles, outages and investment delivery projects.



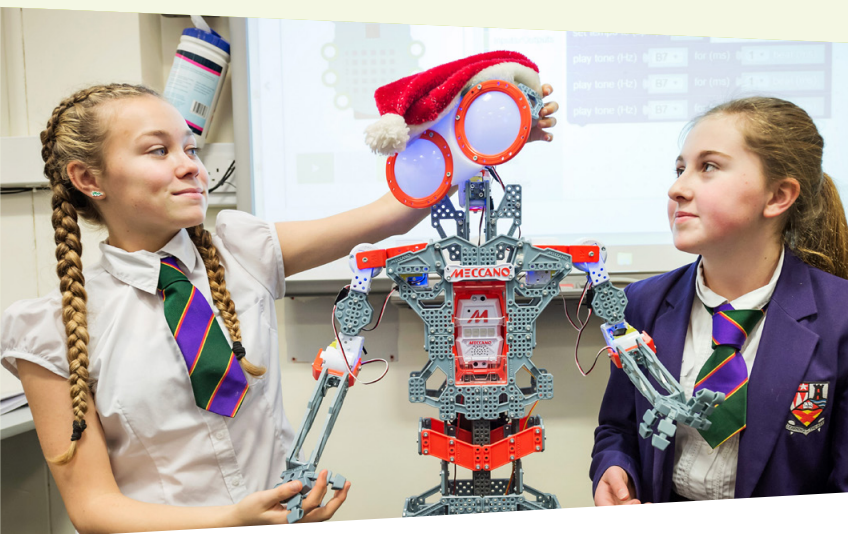
## FACTFILE

**Name:**  
Suzie Schlechter

**Suzie's employer:**  
EDF Energy

**Where is Suzie based?**  
Hinkley Point B, Somerset

**For more information visit:**  
[www.edfenergy.com/careers/early-careers](http://www.edfenergy.com/careers/early-careers)

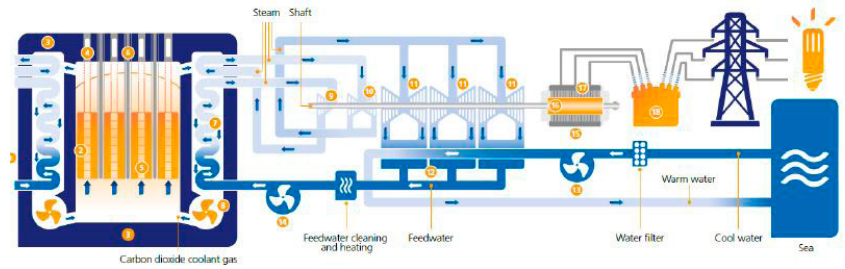


**"Suzie is very passionate about the workforce of tomorrow and works as a STEM ambassador with young people"**

**"The role of senior design engineer is very varied and includes responsibility for maintain design integrity activities across site."**

## How electricity is **GENERATED**

In an **Advanced Gas-cooled Reactor (AGR)** power station



### Key

- |                            |                                  |                         |
|----------------------------|----------------------------------|-------------------------|
| 1 Reactor                  | 7 Boiler (steam generator)       | 13 Cooling water pump   |
| 2 Graphite moderator       | 8 Gas circulator                 | 14 Feedwater pump       |
| 3 Concrete pressure vessel | 9 High pressure turbine          | 15 Electrical generator |
| 4 Standpipes               | 10 Intermediate pressure turbine | 16 Rotor                |
| 5 Fuel elements            | 11 Low pressure turbine          | 17 Stator               |
| 6 Control rods             | 12 Condenser                     | 18 Transformer          |

Suzie has enacted the role of responsible engineer and engineering change author for a wide range of modifications including:

- The design and installation of the diverse holddown Nitrogen plant
- Upgrades to fire detection system
- Gas circulator control and instrumentation modifications

Suzie enjoys delivering training to personnel across site to ensure they are suitably qualified and kept up to date with changes to procedures and the requirements of safety case practitioners.

During outage periods Suzie has carried out the role of area co-ordinator and been responsible for driving the outage work program in the feed and condensate area.

This is quite different to day-to-day senior design engineer duties and adds to the variation of work Suzie is involved in. Outages are commonly thought to be the most exciting times on site.

### What is visual about Suzie's work?

Suzie works on a large industrial site and her role will take her into all aspects of the site. So she has a hands-on as well as a strategic planning role on site.

### What is special about Suzie?

Suzie has a master's degree in electronic electrical engineering.

### Are there any other details that make Suzie's story compelling?

Suzie has produced an engineering mentor guide for

the role of System Health Technical Specification Producer. It has ensured that all future role incumbents are given the full range of knowledge and experience required to become fully competent (suitably qualified and experienced) to perform the role in a consistent manner.

### Is there a webpage with more information about Suzie?

[www.edfenergy.com/careers/early-careers](http://www.edfenergy.com/careers/early-careers)



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