



TICE CREATE Stage: **COMPUTER SCIENCE** Project 1

Title: Fashion Futures | What will it be?

Project Outline: Have you ever thought about what your wardrobe will contain in the year 2040? Fashion and technology will inevitably become one.



Pick this project if you are interested in: **Fashion innovation, recycling old clothes, invention and wearable technology. Arduino programming and electronics**

There's no denying that the technology world is obsessed with fashion. Amazon, Apple and Google, three of the biggest names in tech, are all trying to carve their own path into the fashion space. Look at Google with conductive fabrics embedded in a smart jacket made by Levi's for an example.

All of which is to say, the line between these two industries is blurring (*Tech & Fashion*). Now more than ever, it feels like high-tech fashion is on the verge of being more than just a gimmick. In the not-too-distant future, you could even be 3D printing your own shoes or clothes at home. Instead of going to a store, you'll buy blueprints straight from the designer.

Still, you get the feeling technology companies are on the verge of a major breakthrough in fashion, and it's only a matter of time before we see products that are both useful and accessible to everyone. We must remember that what may seem like a gimmick now could end up laying the ground for something bigger: What if Google's Jacquard jacket could one day measure your heart rate, along with letting you pick which song to play next? Or if Nike's self-lacing shoes could also track your step count? That future is not far off.

Which companies you will be working with: Sally – Wreckreation (<https://www.wreckreation.co.uk/>), Layers (<https://layers.studio/#/home>) and the TICE Fashion team.

Your 3 Training Days may look like this:

Day one: The first day of our project will be dedicated to learning about fashion innovation and products through a presentation by Jennifer Barrett (Fashion Team). You will hear and see what design ideas the fashion team has been thinking about and what futuristic concepts they have thought about. We will also be looking at C/C++ as used in Arduino as we'll be using an Arduino microcontroller.

Day two: You will be writing the code for the final project and getting to know the LED colour changing strip that we'll be working with to try to prototype the designs we have.

Day three: You will be working with the fashion team to finish the construction of the garments and complete the written concept boards.

Your Mentors are: Charlotte Liddle & Jennifer Barrett (Fashion) & Phil Jeffes (Computer Science Team)