

Next Steps @ TRGA

Your weekly Careers news!

1st October 2018

Next Steps @ TRGA is a weekly newsletter which aims to provide students at TRGA with useful careers information, advice and ideas for the future – stay tuned for more tips and information next week!

Career of the week

This week – **Structural Engineer**

Niamh McCloskey



Tell us a little about what you do...

As a Structural Engineer I design the structure of a building. I will design the foundations, beams and the columns that make the building stand up. We do this by making computer models where we put in the weight of the rooms e.g. a library or office, and then we add forces like wind and snow and see how it moves. I also carry out surveys on structures that are abandoned, changing use or being refurbished.

What's the best thing about your job?

Engineering isn't just an office job; the best thing about my job role is getting to explore and survey buildings that normally people won't get access to and being able to walk into and take people to a building that you have designed.

What sort of challenges do you face?

There are a lot of challenges in construction, mainly trying to get our structural design to work whilst keeping the Client, Architect and Design Team happy. On several designs, we might encounter challenges on site such as existing coal mines in the ground or water running through the site which all affect how we design the building.

What skills, qualifications or experience do you need to get into this industry?

To be a Structural Engineer I studied A-Levels in Maths, Physics and Ancient History and went to Liverpool John Moores University to study Civil and Structural Engineering. Depending on your university requirements they may only need you to have one maths-based subject. However, you are not limited to just A-levels, there are a number of different routes including Apprenticeships, HNC/HND and part-time study. The skills you need are to be a team player, a problem solver and to enjoy maths and science. However, it is also about being creative and thinking outside the box to solve problems and create your design.

To work hard in school and if you enjoy maths and science to consider Engineering. It is also important not to be put off by Engineering if you are a girl, as there are so many women in Construction and Engineering and lots of great opportunities.

What advice would you give to someone wanting to get into this type of work?

I want to know more about...

Got a job or career area you'd like to find out more about that we haven't featured in the newsletter yet?

Let us know by coming and speaking to **Mr. Webb** in the **Careers Room** (Room 203)!

Monday Morning inspiration:

"Be yourself; everyone else is already taken".

Oscar Wilde

Need some support with your future plans?

Speak to your Careers Adviser!



You can find **Mr. Webb** in the Careers Room (203) on the 2nd floor at breaks or lunchtimes if you have any questions!

Email: careers@ruthgorse.leeds.sch.uk

For more info on similar careers, check out the links below:

<https://www.prospects.ac.uk/job-profiles/structural-engineer>

<https://www.tomorrowsengineers.org.uk/>

Keeping it local!



Stay up-to-date with some of the education, training and work opportunities in the Leeds City Region:



Careers-related news from TRGA and the local area!

Year 10 and 11 – After-school opportunities with the Hunslet Club Autumn/Spring Term!

Looking for an opportunity to learn something new outside of school?

From September 2018, *The Hunslet Club* have been running a project for local young people involving training in a variety of vocational subjects:

- Plumbing
- Joinery
- Car Mechanics
- Plastering
- Catering
- Hairdressing
- Beauty Therapy
- Bike Mechanics

The courses will run on **Monday evenings** from **4pm-6pm**, are completely **free** for students from South Leeds (Hunslet, Middleton, Beeston etc.) and will result in a **BTEC L1 qualification**.

Please see **Mr. Webb** in **Room 203** for more details!

MOOC of the WEEK!

A **MOOC**, or Massive Open Online Course, is a type of online education programme that people of any age can access through the internet, often for free!

This week's **MOOC of the Week** gives you the opportunity to learn more about bank accounts, student finance and budgeting through this course on managing money for young people – check it out!



<https://www.futurelearn.com/courses/managing-my-money-young-adults>



You can also visit some of these websites for more information...

Courses

There are lots of different qualifications and courses available at schools and colleges around the local area, from A-levels to vocational qualifications like BTECs!



UCAS
Progress

hotcourses



Apprenticeships

You can also visit some of these websites for more information...

Apprenticeships involve training in an industry while working for an employer – this could be in anything from Animal Care to Law! As well as getting paid for the work they do, apprentices also complete a qualification with a college or training provider and can be a good option for students who don't want to stay in full-time education after 16!



The Apprenticeship
Guide



volunteering

Volunteering is a great way to gain work experience in lots of different environments – you may need to be 16+ or 18+ for some of the opportunities available but because you are giving your time for free, you can do this type of work experience whenever you have the time to commit!

You can also visit some of these websites for more information...

vInspired

Do-it



You can also visit some of these websites for more information...

Getting a part-time job can help you to develop valuable work skills, like Communication, Problem Solving and Motivation and also help you earn money!

indeed®



employment 4 students

