

February 2022

Headteacher's Round Up

**SOUTH
HUNSLEY**
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Newsletter for South Hunsley Students and Parents/Carers



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Introduction from our Headteacher

**SOUTH
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Dear Parents/Carers,

I hope you and your family are well and welcome to the Spring edition of our Round Up. It has been another very busy half term and I am delighted to share with you a variety of updates and achievements from across our school.

Before doing so, I would like to thank our students for the positive way they have continued to face the ongoing challenges of the pandemic. Their determination, resilience and adaptability has been incredible to see and shows just what fantastic young people we have in our school. Thank you for the support you have continued to give to your children and the school which is very much appreciated.



I would also like to commend our Year 11 and 13 students for the way they have approached their recent mock examinations. These are always anxious times for students but particularly so for these year groups, who have had limited prior experience of formal exams due to the disruption they have faced by the global pandemic. In all cases, our students have approached these exams in a very positive and determined way and I hope the feedback they have and will receive is helpful as they enter the final stages of their courses.

In support of this, it has been great to see so many of our Year 11 and 13 students accessing our 'period 6' programme of consolidation as well as the additional sessions that colleagues are offering. Now is the time to ensure that every opportunity for support is being accessed and I would encourage you to review with your child their revision plans and the consolidation sessions they are attending. Thank you in advance for your continued support and should you have any questions or concerns then please do not hesitate to contact your child's Head of House if they are in Year 11 or the Sixth Form Pastoral Team for those in Year 13.

I hope you enjoy reading this edition of the Round Up and I wish you and your family a very enjoyable and safe half term break.



Curriculum Subject Spotlight:

Science

Our new KS3 Science Club launched this half term with students trying out fire writing and making robotic hands. The Science Club is run by members of our department and supported by our sixth form students which allows year 7-9 students to speak with their older peers who have chosen the A level Sciences. We've certainly seen some of the Science Club members being curious by asking fantastic questions! Our Science Club runs on a Monday lunchtime in KG13 from 12.20-12.40pm and we would recommend that students bring a packed lunch to eat in Riding Hall or the Space before joining us.

Across the year groups students have been learning about the following topics, and learning to read, write and speak like Scientists along the way. Year 7 and 8 are our Key Stage 3 classes and have been learning about particles, cells and organ systems in year 7 and electricity and energy, the human body and earth's atmosphere in year 8. The Royal Institution 2020 Lectures focussed on Planet Earth and can be watched at:

<https://www.rigb.org/christmas-lectures/watch>

Year 9 students are working on their Science skills to transition from Key Stage 3 to GCSE in year 10. They have been looking at cell biology, elements and compounds and forces. Please see our year 9 options video if you are thinking of choosing Separate Science as a GCSE option for year 10: <https://southhunsley.org.uk/virtual-ks4-curriculum-event-2022/>

Year 10 students are either working on the combined science qualification in groups 3-7 (two GCSE qualification) or have selected the Separate Science qualification as one of their options (three GCSE qualification) and have been studying infection and response, energy changes in chemical reactions and electrical circuits. We would recommend watching the Royal Institute 2021 Lectures (available on BBC IPlayer) which focus on the science behind the Coronavirus pandemic which is linked to the infection and response topic.

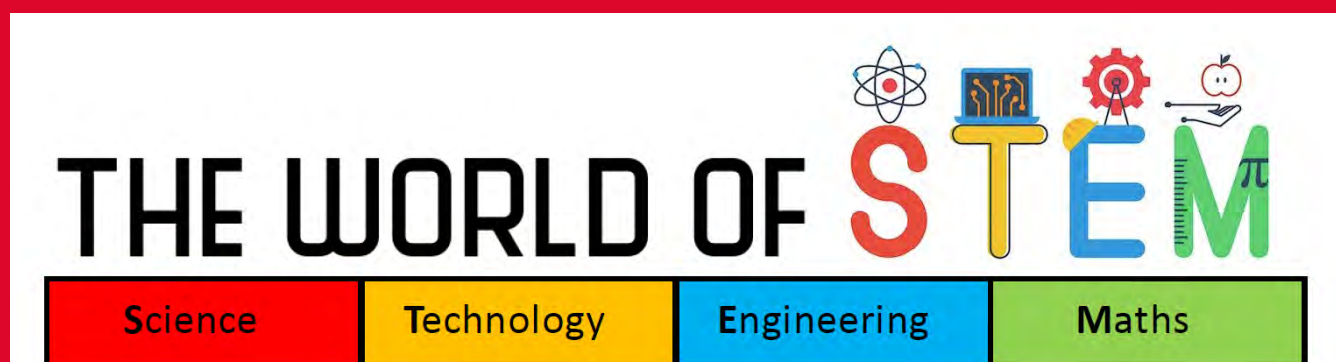
Year 11 students have recently completed mock exams and in the combined science groups 3-7 are continuing to review the topics from paper 1 and 2. Our separate science students in groups 1 and 2 have been learning about the eye, organic chemistry and astrophysics as they continue with new content for the three GCSE qualification.



Curriculum Subject Spotlight:

Science

Our Sixth Form students have been working hard preparing for assessments and, for year 13, Mock Exams and the Unit 3 exam for BTEC. We're really proud of the effort they have put in under challenging circumstances and look forward to seeing the progress they've made when we review their exam papers and they get their results. Our year 13s also continue to complete the UCAs and Apprenticeship applications with several students now receiving offers and looking to their future pathways in Science.



In other Science News...

We have launched our STEM newsletter which is available at the end of the Head's Round Up and can also be found on all Science classes on Teams.

Doddle Learn continues to be popular with our students with hundreds of resources available, including presentations, revision and mini-quizzes. Details on how to login are on classes on Teams but the username is firstnamelastname<year started at South Hunsley> (e.g. joesmith17 for a year 11 student) and the password is Science2021 (with a capital S).

Class teachers can reset forgotten passwords but if you have any other issues please contact helen.savory@southhunsley.org.uk.

Students can access Doddle Learn at www.doddlelearn.co.uk or by downloading the free app.

Alumni Spotlight: Louise Randerson

To celebrate National Apprenticeship Week 2022 we are proud to highlight the success of former student Louise Randerson, who progressed into an apprenticeship after completing her studies at South Hunsley Sixth Form.

Louise secured a place at Rolls Royce for a degree apprenticeship in engineering and is currently completing her first year with the company. Louise was involved in the Employer Led Programme during sixth form, which enabled her to develop key employability skills that she was able to demonstrate when applying for apprenticeships. Louise has always wanted to pursue a career in the engineering industry and through her degree apprenticeship she is able to study whilst gaining invaluable experience in different aspects of engineering.

During the four-year programme with Rolls Royce, Louise will work on a wide range of exciting projects. By the end of the programme, Louise will have obtained a Bachelor of Engineering in Mechanical Engineering with Electronics, as well as additional NVQs.

Louise explained "South Hunsley gave me the foundations to go on to pursue my goals as a female in the STEM industry and to not be intimidated by aiming high".

We are proud of Louise's achievement and wish her the best of luck as she continues her degree apprenticeship programme. Please visit our website to read more alumni stories from former students over the recent years:

<https://southhunsley.org.uk/sixth-form/alumni/>



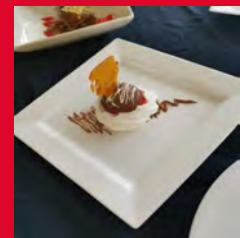
Curriculum Subject Spotlight:

Design and Tehnology

In Key Stage 3 Design and Technology students have been learning about different materials through practical activities and tasks. Year 7 students have been focussing on the working properties of materials such as metals, plastics and fabrics to manufacture outcomes such as aluminium animals and nylon kites, whilst year 8 students have looked at timbers and the use of CAD as part of the design process. As well as this year 8 students have designed, built and raced solar cars whilst learning about sustainability issues and renewable energy in Design and Technology.



Year 9 students have been learning skills and processes to support their options choices at GCSE. In the workshops students have been designing and manufacturing clocks in the style of an iconic design movement following the iterative design process, whilst in the design studios students have been learning about different skills and processes associated with fibres, fabrics and smart and modern materials through a range of trials and experiments. In their Food and Nutrition lessons Key Stage 3 students have been learning about topics such as diet and health, nutrition, sources of food as well as learning about the functions and properties of different ingredients and how they affect the outcome of a range of products by carrying out food science experiments in addition to their normal practical lessons. Dishes prepared and cooked include pasta bake, garlic dough balls, calzone pizza and cheesecake.



In year 10, students in Design and Technology, Textile Design and Food Preparation and Nutrition have been developing skills in their respective material areas by designing and manufacturing outcomes including LED lamps from timber, interior products such as fabric wall hangings and food dishes. GCSE Food Preparation and Nutrition students started the year with a food styling challenge, learning tricks of the trade about how to present food. We've baked for the MacMillan Coffee Morning and ended our first term by making a festive afternoon tea for our school cooks.



Curriculum Subject Spotlight:

Design and Technology

Our Engineering students are busy completing their first piece of work to be externally assessed at the end of year 10 which focusses on the analysis and disassembly of an engineered product.

Our year 11 and 13 students continue to work hard on their Non-Exam Assessment work which will contribute towards their final grades in the summer term. Year 11 and 13 Product Design students are designing and prototyping a range of individual products including children's toys, equipment to support health and fitness, storage solutions and furniture.

Engineering students are researching how products are manufactured looking at materials, processes and components used in the mass production of engineered products through disassembly and analysis whilst in Textile Design students are completing a practical project where they are designing and manufacturing a garment inspired by influences such as costume design and festival wear.



Finally, our Food and Nutrition students started their Non-Examined-Assessment in the autumn term. They are developing and making a range of food products based on Italian cuisine, children's foods or dishes developed to promote heart health.

Outside of the classroom we are pleased to have a small but thriving lunchtime club in food preparation and nutrition. Students make healthy lunchtime products, which they make and eat together each Monday. We have been lucky enough to be given some of the garden spaces in the school which have been planted up with herbs and some seasonal fruits and vegetables. These will be used by students at KS3 and 4 to develop their understanding of seasonality and where food comes from.

The Design and Technology Department are proud of the attitude and resilience students continue to show in what have been frequently changing and challenging circumstances and for this we continue to applaud them as we enter the new year.



National Apprenticeship Week 2022

We are delighted to share a range of activities students have been involved in recently to recognise and celebrate National Apprenticeship Week.

Students in Key Stage 3, 4 and 5, have explored how their individual subjects link to apprenticeships in the local area, as well as nationally. Teaching staff shared videos linking their subject to various apprenticeships and discussed the many additional opportunities the programme can provide now and in the future. In addition to this, staff supplied information on the various employers that provide apprenticeships locally and promoted any upcoming events.

As well as information and resources from staff, students have also been given the opportunity to attend various career talks. KCOM delivered a session on personal branding and how to promote yourself whilst undertaking an apprenticeship. BAE Systems delivered a session via TEAMS on the various apprenticeships that will be coming up at their Brough site in the future.

The South Hunsley School Twitter page, @southhunsley, promoted external apprenticeship events and resources, along with alumni and parental information to support young people in their search for apprenticeships. The main aim of the week was to not only to promote apprenticeships as a potential career route, but to link the curriculum to careers and promote apprenticeships at subject level. As well as National Apprenticeship Week, National Careers Week in March will enable staff to also link their lessons to Higher Education and University courses. Both weeks will support students to make informed choices about the next stage of their education and careers by providing quality information, guidance and support.

We would like to say a special thank you to Mrs Barley, Mr Gray and Mrs Parsley for their hard work in organising a fantastic programme for our students, with the support of the careers team.



South Hunsley girls football teams excel at a national level

We are delighted to share the success our girl's football teams are enjoying this season, having progressed to the latter stages of the national competitions across the age groups.

Our under 12, 13, 14 and 15 girls' teams have all progressed to the quarter finals of the National Cup. During their campaign, the U12's have only conceded one goal and the team travel to Liverpool after half term for their quarter final match. There were 456 teams across the UK who entered the U13's age category with our team making it through to the final 8, having scored a total of 54 goals across the 6 rounds. The Under 14 girls have also had a fantastic campaign, scoring a total of 53 goals to get them through to round 7. The Under 15 girls will travel to Shrewsbury and play at the town's football ground for their chance to become semi-finalists.

Finally, the South Hunsley Under 13 6-a-side team have been competing in the Utilita Girls Cup. The team won the first local round held by Tigers Trust at Hull University and then progressed to representing Hull City where they played teams such as Sunderland, Middlesbrough and Doncaster. The team won all 8 games and as the winners of this round they now progress to the northern final held at Derby County's football ground, where they will play the three other northern final area winners. If successful, they will qualify for the final, which this year will be played at Wembley.

Each team has already had a fantastic season showing that hard work and determination really can lead to great success. We wish them all the best of luck in their future matches.



Year 8 student's musical success at the Cottingham Music Festival

Year 8 student, Millie M, showed just what an accomplished musician she is by achieving first place in each category she entered at the recent Cottingham Music Festival. The categories included, hymn singing 13 years and under, vocal solo girls 11-13 years, vocal duet 14 years and under and vocal duet 17 years and under.

Millie has always had a strong musical interest with her main focus being on singing and piano, performing both to a very high standard. Over the past term, Millie has also gained a distinction in both her ABRSM grade 5 singing and grade 4 theory exams. Millie hopes to complete her grade 5 theory exam at Easter, which will enable her to move onto grade 6 at both piano and singing.

Millie's music teacher Mr Firth explained "Millie should be very proud of her musical achievements so far. It is clear to me that she is a fantastic musician. I look forward to seeing how Millie's music journey progresses. Well done Millie!"

Congratulations to Millie and we wish her the best of luck with her future music ambitions, which we look forward to hearing about.



Year 10 student is selected to join the Under 17 Loughborough Lightning Netball Academy

Congratulations to Year 10 student, Aimee C, who has secured a place in the Under 17 Loughborough Lightning Academy.

Aimee has been playing netball since Year 4 and has continued to pursue her passion throughout school and with local team Kingston Netball Club. As a result of her success in the sport, this year Aimee was selected to play in the Loughborough Lightning Under 15 competition squad. Since then, Aimee's potential as a promising young player sparked the attention of the coaches and she was offered a place in the Under 17 Loughborough Lightning Academy. Loughborough Lightning is the number 1 Netball Superleague side in the East Midlands and hosts trial opportunities each season to allow athletes the chance to be selected into the elite team.



Aimee explained how becoming a member in the Under 17 Lightning team will enable her to further develop her skills as a Goal Keeper and Goal Defence by playing with more experienced players. Aimee's long term ambition is to join the England Roses Academy Netball Squad and hopes progressing within the Lightning Netball Academy will support her to achieve her goal.

Mr Williman congratulated Aimee on her achievement "We are proud of Aimee's hard work and determination in securing a place in the Under 17 Loughborough Lightning Netball Academy. She has shown true passion and commitment towards her sport and we look forward to supporting her with her future sporting ambitions".

Congratulations Aimee on your recent achievement. We wish you the best of luck and look forward to hearing about your future successes.

Year 8 student joins the Hull and East Yorkshire Powerchair Football Club

We are pleased to share the news that year 8 student, Harry S, has become a member of the Hull and East Yorkshire Powerchair Football Club, also known as the Electric Eels.

Harry has always had a passion for football and began training with the club at the Allam Sports Centre, at Hull University, in September 2021. Harry is currently in the Academy Team, who compete in the North East League and so far has taken part in training sessions and matches with them. He is hoping to move on to play with the First Team, who compete in national and regional championship leagues, as he builds on his skills and gains confidence.

Harry shared his enjoyment of learning the sport, whilst socialising with fellow team members and is extremely proud of his club kit.

We are very proud of Harry's success at the club. He has shown great determination. We wish him the best of luck with his quest to progress to playing with the First Team in the future.



National Inter County Champions 2022

We are delighted to share the news that Year 10 students, Ben F and Lucas H, competed in the national finals of the Inter County Squash Championships and won the championship title.

Ben and Lucas began playing squash at the age of 4 and 5 respectively, and have continued with their passion for the sport, reaching competition level, alongside their studies. Both boys are members of Ferriby Hall Squash Club and regularly compete against other clubs in the region. Ben and Lucas's team represented Yorkshire and travelled to Nottingham to compete in the national finals of the Inter County Championships. After a tense final, the team won 3-2 and were crowned champions where they were presented with a medal and trophy in recognition of their achievement.

We are very proud of Lucas and Ben's fantastic sporting achievement. Both have shown great dedication and commitment towards their sport and we wish them both the best of luck in their future sporting endeavours.



Performing Arts Announcement

We are very excited to announce that our Whole School Musical this year will be 'We Will Rock You' and will take place in July. Look out for information regarding how you can get involved in the coming weeks.

Please find the extra curricular timetable for Performing Arts 2022 here:

<https://southhunsley.org.uk/files/uploads/2022/01/PA-Extra-Curricular-TT28174.pdf>



Wellbeing Week

We held our second half-termly 'Wellbeing Week', w/c Monday 31 January, to mark 'Time to Talk Day'. Our Student Wellbeing Ambassadors planned a range of activities to encourage positive and open conversations surrounding mental health to help combat the stigma.

We held an afterschool Wellbeing Journaling Workshop, which gave students an opportunity to explore ways to engage in positive self-talk; help process and prioritise their thoughts and feelings, whilst building on friendships.

Later in the week, MIND, the mental health charity, ran a stall at lunch time in The Space and Riding Dining Hall to offer advice and guidance. They also held a Wellbeing Workshop, "Your Voice Matters", which aims to empower young people to become more confident talking about mental health & wellbeing.

We also extended the activities to parents and carers, with MIND offering a Webinar over Zoom for them to attend on "How to Have a Conversation about Mental Health".

Throughout the week our Wellbeing Ambassadors held stalls at break and lunch times. 'Pop for a Chat' where they created resources to engage other students to talk about their wellbeing in a fun and interactive way. 'Getting to Dough You', in which we partnered with Krispy Kreme, to provide doughnuts in staffrooms to encourage conversations over break and lunchtime. We also sold doughnuts to students to raise money for future wellbeing activities within school. We are pleased to confirm they raised a fantastic total of £174.

We would like to say a special thank you to Ms Hartshorn and the Student Ambassadors who worked together to organise activities for the week, and a huge thank you to all students and staff who contributed.



Eco News



South Hunsley School are once again hoping to be awarded the Ecoschools green flag which is due to be renewed in the summer term. The Eco Committee completed the environmental review just before Christmas and have drawn up their action plan for the rest of the year. Our three main areas of focus are Biodiversity, Waste and Marine.

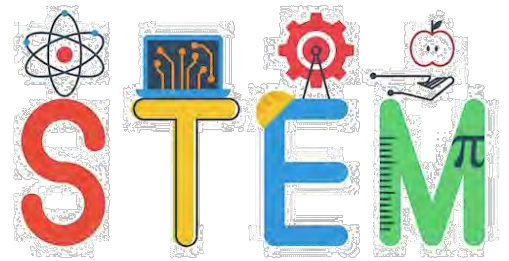
The KS3 subcommittee have been sharing ideas on how to look after biodiversity in our school and are contributing Eco facts around this topic to the tutor board every week.

Under the guidance of our student Eco lead, Bethany D, the KS4 committee has been working on waste. The committee is now collecting old pens and glue sticks, so they can be recycled, and they have put together a plan to raise awareness of fast-fashion.

The school being so close to the Humber Estuary was a big reason for also choosing Marine as a main focus. As part of this, the group have been discussing the links between "life on Land" (Sustainable Development Goal 15) and "life below water" (Sustainable Development Goal 14).

Between 25 March – 10 April the Eco Committee will be taking part in the Big School Clean organised by Keep Britain Tidy and hope to involve other members of the school community. Several members of the committee have also taken part in the national competition Planet Super League and they are currently placed in the upper half of the league.





THE WORLD OF

Science

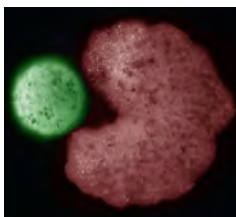
Technology

Engineering

Maths

STEM in the News... Living Robots that are Capable of Self-Replicating

Last year a team of scientists repurposed living cells—scraped from frog embryos—and assembled them into entirely new life-forms. These millimetre-wide "Xenobots" could move toward a target, pick up a load (like a medicine that needs to be carried to a specific place inside a patient)—and heal themselves after being cut. They have now discovered that these computer-designed and hand-assembled organisms can swim out into their tiny dish, find single cells, gather hundreds of them together, and assemble "baby" Xenobots inside their Pac-Man-shaped "mouth" —



that, a few days later, become new Xenobots that look and move just like themselves. This is the first time a robot has been able to reproduce.

The Science Behind... Wireless Charging

In the late 1800s, Nikola Tesla successfully transmitted electricity through the air. He used a process called resonant-inductive coupling, which works by creating a magnetic field between a transmitter (which sends electricity) and a receiver (which receives the electricity) to power light bulbs in his New York City laboratory. A few years later, he patented the Tesla coil — a tower with a coil at the top that shot bolts of electricity. Tesla had much grander visions of a wireless power grid, but these dreams were never realized. The same basic principle of inductive charging applies to smartphone wireless charging. An electromagnetic coil, the induction coil in a charging base, creates a magnetic field and is basically an antenna to transmit a field of energy. A second smaller coil in the phone receives and harvests the energy and its circuitry converts it back to usable energy for the battery.



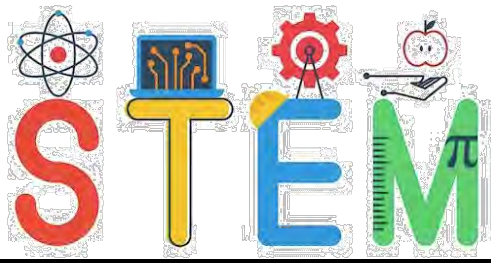
STEM at Home... Ice Cream in a Bag

Ice-cream recipe: 120ml milk, 120ml cream, 1/4 tsp vanilla, 4 tsp sugar.

1. Put the milk, cream, vanilla and sugar into the SMALL zip-bag and zip it shut
2. Put about a cup of ice into the large bag and the cover the ice with a small handful of salt. Put the small bag with your ingredients into the larger bag.
3. Add some more ice and then some more salt. Keep adding salt and ice until the bag is almost full.
4. Zip it shut (be sure it is zipped) and then carefully hold opposite sides of the bag and shake the bag back and forth for about 5-8 minutes.
5. Open the larger bag and take out the smaller bag – it should be full of ice cream! Rinse off the bag under running water to remove any salt that may be near the opening of the bag.



The Science: When you added salt to the ice, the chemistry between the two forced the ice to melt. Before the ice could melt though, it needed to borrow thermal energy from objects that surround it. This is called an *ENDOTHERMIC* process. Since your ingredients are not as cold as the ice, it borrowed energy from your ingredients making them colder! When they get colder, they freeze up into ice cream.



CAREERS

Science

Technology

Engineering

Maths

Respiratory Clinical Research Unit Manager by Caroline Wright

Brief summary about your career

I have had a career in research right from the laboratory, up until now, where I manage a Respiratory Clinical Research Unit at Castle Hill hospital. I have managed a respiratory research Unit for over 20 years, where areas of research include chronic cough, asthma, chronic obstructive pulmonary disease, bronchiectasis, cystic fibrosis, Idiopathic pulmonary fibrosis and Covid-19. The unit is involved in researching novel treatments as well as established therapies and ways to measure patient outcomes in a variety of respiratory diseases. Most recently we have been heavily involved in the urgent public health studies for Covid-19.

What does your job involve?

It can involve designing your own research protocol and putting this in to practice, including applying to the ethics committee and Medicines Health Regulatory agency to gain approvals. Then screening patients to meet your criteria, performing the study, analysing the data through to publication of a paper. We are also at the forefront of research, working for a variety of company sponsors, delivering a study design to help develop new therapies to improve patient treatment and outcomes. This involves seeing patients in a clinical setting and performing a variety of specific procedures to measure any changes due to therapy. Recording your data accurately as per good clinical practice and usually inputting the information into a variety of databases.



Why are the STEM subjects important for your job?

All of our work is based on health science and an understanding of this is very important in the careers available in Clinical Research.

What qualifications did you need to achieve?

I have a degree in Physiology, but a huge amount of experience in research right from the age of 16.

What do you enjoy about your job?

I enjoy the variety of different projects we undertake and the new skills we develop. I also enjoy the patient contact and the feeling you get when you have helped someone and improved their quality of science. I also enjoy the fact we are always part of understanding diseases better, even if we are involved in negative studies.

Are there opportunities for progression in your career?

Yes, dependent on where you want to be. If you start as clinical trials assistant, then you can progress to a clinical trials practitioner. If you get involved with own research projects then you can apply to do a PhD.