

Women in Engineering



A CHARITY AND A PROFESSIONAL
NETWORK OF WOMEN ENGINEERS



AFFILIATED TO THE NATIONAL
WOMEN'S ENGINEERING SOCIETY



SUPPORTING GIRLS AND WOMEN TO
ACHIEVE THEIR POTENTIAL AS ENGINEERS



Inspiring & supporting diversity and engineering since 1919

The Women's Engineering Society is a charity and a professional network of women engineers, scientists and technologists offering inspiration, support and professional development. Working in partnership, we support and inspire women to achieve as engineers, scientists and as leaders; we encourage the education of engineering; and we support companies with gender diversity and inclusion.

Our Vision

Our vision is a nation in which women are as likely as men to choose to study and work in engineering, and one in which there are enough engineers to meet a growing demand.

Our Mission

Inspiring and supporting girls and women to achieve their potential as engineers, applied scientists and technical leaders. To work collaboratively to assist educators, employers and influencers in creating a diverse engineering community."

The objects for which the Association is established are:

- to promote the education of women in engineering sciences and other skills, the better to fit women for the practice of engineering;
- to advance the education of the public concerning the study and practice of engineering among women; and
- to relieve poverty amongst women who are or have been professional or technician engineers or technologists in allied sciences or educated in science or technology or in the art and techniques of engineering and allied sciences or in other disciplines considered by the Council to be complementary, their dependents and (if they are deceased) their former dependents.



Courtesy of the Women's Engineering Society

Loughborough University Women's Engineering Society is affiliated to the national Women's Engineering Society – with objectives to support and encourage women working in and studying engineering, and to collaborate with organisations to promote gender diversity and equality in the workplace.

We run numerous events throughout the year, which can be split into four main categories: networking, supporting, socialising and volunteering. Our main networking events are our annual careers fair, industrial site visits and workshops.

We provide fully funded places to the WES National Student Conference and run the annual Female Engineer of the Year awards to offer support to our students.

We have numerous socials throughout the year, running a pub quiz during freshers, and dinners with guest speakers at Christmas and Easter. Finally, we run STEM ambassador training to allow students to volunteer in local schools and at other events.

We would love to have as many new faces join us as possible and membership is completely free, so please feel welcome to come to our next event! You can either find details about how to get involved on our Facebook group where most of our events are posted or you can email us at wes@lboro.ac.uk.



I chose to study Aeronautical Engineering because I was an air cadet so had an interest in aviation. Loughborough University was the first university I looked at and found that I compared all the other universities that I visited back to Loughborough, so it was an obvious choice to study here. I have always been inquisitive about how things are made, how they work and enjoyed STEM subjects throughout my early education.

I chose to do a placement year as I wanted to gain experience relevant to my degree as my previous summer placements were mechanical engineering roles, rather than aerospace specific. Because of this, I completed my placement at Rolls-Royce plc, working in Defence Aerospace. I was assigned my first role in Critical Parts Lifting, however, chose my second rotation in Optimised Maintenance as I wanted to gain experience in Service Engineering which isn't covered during my degree.

I am the chair of Loughborough University Women's Engineering Society which I am particularly passionate about. We regularly run events to encourage young people to consider careers in engineering, such as STEM activities in schools. As well as providing support to both women and men studying engineering, through site visits, careers fairs and networking events.

My current career ambition is to complete a graduate scheme as a manufacturing engineer within the defence sector, which my degree and placement experience will be key for. I would also like to achieve chartered status as soon as reasonably possible, which I believe the skills I have learnt during my degree will help with immensely. Finally, I would love to promote STEM careers to young people, by running events in schools which will hopefully increase diversity within engineering.

The main challenge I have faced is people (often my peers) questioning my capability as an engineer as they believe that routes into engineering are made easier for women since companies are supposedly striving to meet quotas, so allow less competent female engineers into roles. This is not true, and it is incredibly frustrating that people are so willing to belittle my aptitude for engineering. This is a misconception I am passionately working to disprove and would like to see these beliefs cease to exist within the engineering industry in the near future.

A career in engineering has an incredible amount of potential, as there is so much variation within engineering roles and even the industry itself. It requires hard work but most importantly confidence in your own abilities, which is a great personal skill to develop. Overall, careers in engineering are incredibly rewarding and offer great prospects for both professional and personal development, so I would highly recommend considering it!

"I am the chair of Loughborough University Women's Engineering Society which I am particularly passionate about."

—
Naomi Richardson,
Final year student, MEng with DIS
Aeronautical Engineering



I applied to Loughborough University after attending a Headstart course; where there were introductory sessions into the different types of engineering. I was able to speak to members of staff about the courses they offer, and which path would help reach my goal. Our reputation for engineering was definitely an important factor. Like a lot of engineers I always loved my science classes the most however it was only in sixth form when engineering was suggested to me by a teacher. At that point I had established I might want to work in renewable energy but was unsure what the most efficient path to take would be.

I am currently on a placement working in the rail sector in the research and development department for Siemens. So far, I have had a more technical focus, but I hope to gain insight in to project management while I am working. It is also a good opportunity to improve my networking skills and learning about different career paths. While at Loughborough, I spent my first year as part of AU Dance and AU Cheerleading. I have danced since the age of three and it was very crucial to me that I was able to keep it up alongside my studies. I have also always had a part-time job working in retail and customer service. I try to fit in volunteering for RAG and attending talks such as 'How do we solve a problem like the lack of Women in Engineering?' which was put on by IMechE and WES; Future Female Engineer events by TargetJobs and site visits. I received the IET's Horizon Bursary in my second year sponsored by Cundall and was able to attend the ceremony, where I got to listen to a speech from the Young Woman Engineer of the Year Award 2018.

I have been lucky enough to not have faced external challenges in pursuing a career in engineering. Both my family and academic staff have all been very supportive. Once I leave Loughborough, my next goal will be progression onto a graduate scheme then become a chartered engineer, I am still learning which field this will be in. Once I have spent a few years in technical roles I think I will then start to move towards project management roles. Throughout all of this I will continue to be a STEM ambassador and attend talks to play my part in the engineering community.

Engineering is such a diverse discipline, there is an area for everyone. If when researching university courses, you don't seem to find things you are passionate about don't worry. A lot of the time they are built to give you the foundation and skills that will transfer into the working world. Try and be as involved as you can! Go to talks about equality in engineering, about the predicted future of different areas! Most importantly don't give up! Eventually all the things you have learnt will click into place.

"I will continue to be a STEM ambassador and attend talks to play my part in the engineering community"

—
Ellis Chappell,
Third year student, MEng with DIS
Electronic and Electrical Engineering



I chose to study aeronautical engineering as it allowed me to combine my interest in maths and physics in a contextual manner. Engineering isn't just the theoretical, it is also about the practical side of things; creating and innovating various things that makes life easier for everyone. I particularly chose Loughborough due to the sense of community and pride. The university culture is one that promotes oneness and drives for growth both individual and community related.

I became interested in engineering when I was 15. Having never really heard about engineering or what it entails, I put my best foot forward and applied for an introduction to engineering for girls which was a joint event by WISE (Women in Science and Engineering) and the RAF. A week in RAF Cosford opened my eyes to the world of engineering and its opportunities.

In the summer of 2018, I did a 10-week placement at Rolls Royce plc as a development engineering intern. For the summer of 2019, I did a 12-week placement at L3Harris commercial aviation as a software engineering intern. Though each title sounds different, they actually fall into the system engineering umbrella. This is an interdisciplinary section of engineering, that looks at the entire lifecycle of a system from beginning to end. I chose these two placements as they allowed me to work in the different sections of the lifecycle, gaining experience and knowledge.

The biggest challenge I've faced has been stopping myself from being an obstacle to myself. A lot of the time, I would not go for an opportunity because I'm scared or I feel like I'm not smart enough or worthy enough but one thing I've realised is that, the worst that can ever happen is someone saying no but that is never the end. I just have to pick myself up and keep going. One never really knows, unless one asks!

Outside of my degree, I am a STEM Ambassador. I am also the event coordinator for Loughborough's Women's Engineering Society. I do my best to attend STEM related events, such as Future Female Engineers by TargetJobs Events. In the long run, I would like to gain my engineering chartered status and continue to promote more females into engineering. My Loughborough degree has allowed me to gain and improve upon my adaptability skills, resilience and tenacity. To work hard and go for what I want.

Don't limit yourself. Do not let others define the standard by which you should live your life or build your career. Engineering is what you make it; there is no one box for what an engineer looks like so go for it!

"The university culture is one that promotes oneness and drives for growth both individually and community related."

—
Oluwaseyi Asa,
Fourth year student, MEng
Aeronautical Engineering



I have always been impassioned by the environmental area and wastewater treatment. Before the PhD I had six years of experience in industry working with numerical modeling and simulations and I found a great opportunity to combine both areas with Loughborough University's research team.

It was an easy decision for me to be an engineer. I not only had a great influence from my parents (both are engineers), but also because my favorite subjects in school were mathematics and science.

I have faced a lot of challenges in my engineering career. Working as an engineer whether in industry or academia requires being able to solve problems. In my research field, the development of novel numerical models is required to predict multiphysics behavior and the growing complexity of product designs.

Outside my degree, I like to be with my friends, read books and play/watch football.

After six years of experience in the industry, I decided to move my career to academia. I would like to contribute to the development of new technologies in environmental area continuing in academia after my PhD. My advice to those thinking about engineering is to be aware that engineering requires your continuous learning and development. If you like problem solving, you have made the right choice.

“Working as an engineer whether in industry or academia requires being able to solve problems.”

—
Rodrigo Peralta Muniz Moreira,
Second year student, PhD
Chemical Engineering



I chose Loughborough University because I was really interested in doing a PhD abroad in the field of Aeronautics and Loughborough gave me this opportunity by the challenging project I chose. My project is related to innovative turbofan engine designs, which target lower emissions and reduced environmental impact and that was very important for me as it can potentially benefit humanity.

I have been interested in engineering since high school. I was really enthusiastic about Maths and Physics and really motivated to study applied science. I was particularly interested in problem solving and creating new technologies. Through engineering you can push boundaries, use innovative thinking to design and apply new methods in order to improve the way of living and benefit the general public.

I was in the aeronautical engineering sector (My undergraduate was in Mechanical Engineering, but then I did a Master in Aeronautics and another one in Fluid Dynamics) so my goal was to continue in this field by doing a PhD. The project I chose here is really innovative, regarding the next generation Ultra Bypass-ratio Rolls-Royce turbofan engines which target lower emissions and better performance. You always face challenges during a PhD, but you have to be strong and keep insisting up to the point that you overcome all the difficulties. Through the challenges you learn new skills and new techniques, you gain experience and finally improve yourself. Additionally, there is always the challenge of supporting other people that need your help in your working environment as well as you get the support from your supervisor to end up with the best solutions-conclusions regarding your PhD project.

I am a member of WES in Loughborough and take part in several events that are organised to encourage women who are engineers to pursue their dreams. Also, I enjoy travelling abroad and learning foreign languages. Sometimes I participate in volunteering projects organised by the Loughborough Student Union to support people that need help.

I think that the PhD is a great opportunity for me to extend my knowledge and improve my skills regarding Aeronautics. My aim is to continue in this engineering field and particularly in research so the degree from Loughborough University is a key for me to pursue my career. After the PhD I have the opportunity to stay in academia and transfer my knowledge to other students or move to industry and apply this knowledge directly to new products which can benefit humanity.

My advice for future engineers is that they have to follow their dreams, be strong, patient, hardworking and set goals; in the end you will succeed.

“Through engineering you can push boundaries, use innovative thinking to design and apply new methods in order to improve the way of living and benefit the general public.”

—
Dimitra Tsakmakidou,
Second year student, PhD
Aeronautical and Automotive Engineering



I chose to study Product Design Engineering at Loughborough because the student-led projects were amazing examples of innovation, marketability and technical skills: the perfect balance between product design thinking and engineering principles. The work I saw at the open day inspired a great amount of creativity and motivation in me. Moreover, the university's reputation as one of the top five best in the country appealed to my ambition to receive the highest quality of teaching.

I became interested in engineering after I completed my GCSEs. I had done well in the sciences and maths so I started to explore STEM careers and engineering had what I felt to be the most exciting, globally relevant and challenging prospects.

As an international student, I have faced some challenges adjusting to life in the U.K. Most especially the colder weather and using public services like the NHS and national rail system. I also suffer from chronic migraines which make it difficult to do every day activities. Although I am now receiving support from my department with my migraines. Outside my degree I attend the well-being programme organised by Femme Fatale at Claudia Parsons every Monday. I also enjoy reading and writing original poetry and illustration. In addition, I am a member of two societies the radical youth and the Nigerian society here at the university.

My career ambitions are to work in a consultancy in the design and installation of performing art centres, museums and theme parks. I would love to be a part

of projects from conception to the final product. Additionally, I would like the opportunity to travel and engage in the front-end and back-end of the company to make use of my people and management skills as well as my design and engineering ability. I am in the process of applying to placements to help with this ambition. I am currently looking for jobs in design consultancy, supply chain and entertainment engineering. Some companies I have looked at include PepsiCo, Arup and StageOne and the careers office are a great resource for this process.

My advice to someone thinking of a career is to do a lot of research into the industry. There are a lot of sectors to consider and many roles one can play within the company using an engineering degree. Make use of placements, work experience and insight weeks to get a better understanding of where one's skills and more importantly interest can be utilised.

"The student-led projects were amazing examples of innovation, marketability and technical skills"

—
Tamilore Ayo-Famola,
Second year student, BEng with DIS
Product Design Engineering



I chose Loughborough because the efforts put forward by Loughborough staff and students was insurmountable. My apprehension of moving away and starting my first real adventure was calmed so much by hearing other students' experiences during the tours. For my PhD in sustainable and renewable plastics, my placement Research & Development heavily influenced my decision, alongside conversations with my academic and industrial supervisors who remarked on my penchant for asking "why is this the way it is?" whenever we discovered something, good or bad!

As a child I loved science and always elected to take options at school that gave me the extra classes, although I always thought of it as science and it was a long time till engineering became part of my vernacular about half way through my A-levels as I was deciding on further study. It was really the searching for degrees that opened my eyes to just how much wonderful variety is available.

"I am the Doctoral Researcher President, acting as a figurehead for the entire doctoral body across Loughborough and Loughborough-London to represent their views at an institutional level with senior university staff, among other responsibilities."

—
Tom Baker,
Third year student, PhD
Materials Engineering

During placement year I worked for a Swedish mining company, specifically a subsidiary that focused on fire retardant minerals for plastics. A lot of my day-to-day activities involved formulation and processing of polymers with various additives and enhancers to meet desired mechanical properties, but also improve their fire retardancy, which required more specific testing to assess. I got to go on site visits to see larger scale production of the laboratory work I helped to develop.

There have been many challenges, initially I applied for Chemical Engineering and didn't get the grades! I was terrified the morning of my results about what this meant for my future career. Luckily, the Admissions Tutor emailed me offering a BEng Materials Engineering course, something I had already considered and at Loughborough are housed within the same building so was mildly familiar from Open Days. I accepted. Although the adjustment was difficult and I had to work hard to prove my worth, I performed well gaining my Master's with a placement year, graduating with a Diploma in Industrial Studies along with a First Class with Honours MEng degree, now the PhD. Face your challenges head on!

Outside my studies I'm a University Teacher, I perform lab demonstrations across a range of topics from foundation to Master's level. I am the Doctoral Researcher President, acting as a figurehead for the entire doctoral body across Loughborough and Loughborough-London to represent their views at an institutional level with senior university staff, among other responsibilities. In the future I would like to head a Research & Development team in an area pertaining to sustainable polymers because I am passionate and care about it.

My advice is explore as many available options before you decide, and don't be afraid to change your mind or push for more. Engineering is a very generic term but regardless of the final choice you make, you'll become a very well-rounded individual if you work hard for it.



I chose Loughborough University because I wanted to combine my enjoyment of Physics and Maths with my love of Formula One and I realised that Automotive Engineering was a great route of study for myself. I have always enjoyed the Sciences and Maths at school due to their use of logic and reason. Being able to study a subject that incorporates those principles along with the creative side of designing and making products was an exciting prospect.

During my placement I worked at the British luxury car maker, Aston Martin Lagonda. I worked in the Advanced Manufacturing Department, this meant that not only did I get involved with designing processes to build the vehicles but also it included a practical element of helping to resolve any issues on the physical factory line. I really enjoyed getting a chance to see both sides of the engineering discipline.

Outside of my degree I am the Vice-Chair for the Loughborough University WES for this year and I am looking forward to working with all the new members of the society. I'm also excited to help plan industrial visits for us all to enjoy and hopefully they will kick start interests in different industries for those attending. I was also lucky enough to win the undergraduate Female Engineer of the Year 2019 organised by Loughborough WES because of the work I have done during my course and placement as well as the volunteering work I have done to promote engineering.

I think every engineer has faced challenges; engineering can be a demanding degree. I personally found coding hard as it was something I had never done prior to university; but realising it was important for my industry, I worked hard to learn it. I used my tutor and my peers' support as well as extra online tutorials and now I have a good understanding of basics and can use these to advance my skills further this year. My ambitions are to continue working in the Car & Transport industry; working with Electric Vehicles on my placement has inspired me to want to work to help provide solutions to the environmental and efficiency concerns within the industry.

My advice for future engineers is to go for it - engineering is an incredibly rewarding sector with the majority your work making a difference to someone, no matter how small.

"My advice for future engineers is to go for it - engineering is an incredibly rewarding sector with the majority your work making a difference to someone, no matter how small."

—
Hannah Langridge,
Fourth year student, BEng with DIS
Automotive Engineering



Loughborough University gave me the opportunity to work on an engineering project which is present in the real-world. It has been an international pioneer in this sector for decades and the campus is set up within excellent facilities which have everything you need to excel in your studies.

My research is focused on the importance of enhancing our driving experience to have safer roads. The aim is to develop a Collision Avoidance System (CAS) algorithm to assist motorists by detecting obstacles in order to avoid an imminent collision. The system works by collecting data from various sensors installed across the vehicle which is then processed to obtain a more accurate data set using Artificial Intelligence. A vehicle trajectory is generated in order to be able to predict and in turn prevent any potential collision by giving out collision warnings through the avoidance control dashboard.

I have been interested in engineering since a very young age. I was always curious on how things are made.

"I love to teach and have an impact on students' lives."

—
Nicolette Formosa,
Second year student, PhD
Civil Engineering

As technology and society continues to develop, the challenges are endless, and engineering is the perfect platform for creativity to address these challenges. During my studies I took part in a number of conferences and a student exchange experience with the University of Central Florida. I have also been awarded the inaugural Postgraduate Female Engineer of Year 2019 by WES Lboro which highlights inspirational female engineers at Loughborough which are excellent both academically and as part of both the Loughborough and wider engineering community.

During my free time I support the lecturing staff by delivering tutorial sessions to the undergraduate students within ABCE. I'm also a Sub-Warden in order to get involved in the campus community. This gives me the opportunity to meet other students and supporting in the daily struggles of university life. One of the activities I enjoy doing outside of work is to travel. Experiencing something which is unfamiliar and discovering how the rest of the world lives is always very rewarding. You gain awareness of new customs, cultures, people and places.

I was always intrigued to pursue an academic career. I love to teach and have an impact on students' lives. An academic career can give the opportunity to help students to succeed in their careers and professional development. The university environment also promotes opportunities for collaboration agreements and a cross-disciplinary research which is both interesting and exciting. Reading for a PhD degree at Loughborough University is just the first steps towards such a career.

A career in engineering is a very rewarding one in which you can really contribute in improving one's life. The more you expose yourself to the world of engineering, the more opportunities you may have and the better prepared you will be to meet any challenges which may come your way.



Lottie Tour

This magazine project was inspired by the Women's Engineering Society Young Members Board Lottie Tour. The tour is in its fourth year taking place during Tomorrow's Engineers week 2019 to show how varied and exciting it is to work in engineering. The project is aimed at primary school children using social media to showcase current engineering with the aid of a Lottie doll (a child's toy) with the hope of breaking down stereotypes and engaging a young audience.

The 2019 theme for the tour is "then and now" celebrating the centenary of the Women's Engineering Society. Both the magazine and the tour capture the change in engineering from the past 40 or so years celebrating the progression of technology and diversity. Although this magazine is aimed at a school leavers age there is an accompanying Lottie tour resource interviewing the profiled engineers for an audience ageing between 6–11 years.

This outreach project as well as the magazine was developed and organised by a current PhD research student, therefore the Lottie tour blog is featured on the doctoral college website free for all to use www.blog.lboro.ac.uk/doctoral-college.

Follow Lottie on social media using hashtags **#ThenAndNow**, **#WESLottieTour**, **#TEWeek19** and **#WES100**.

For more information search www.wes.org.uk/lottietour.

The reason why I chose to study at Loughborough University was because I saw that the Product Design Engineering course offered a variety of topics including Materials and Manufacturing Engineering, Additive Manufacturing and Sustainable Manufacturing. The vibrant campus also swayed me towards choosing Loughborough as the place for my undergraduate studies.

Although I didn't quite know what engineering when I was younger, I was always fascinated by how things worked and would often disassemble items around the house. My interest in engineering continued through secondary school and was reinforced through my design and technology classes and my art class.

Although I didn't go on a placement, I did take part in the Innovation Driven Enterprise Academy (IDEA), is a summer programme offered by Loughborough University for engineering and business students to work in multidisciplinary teams to develop student-proposed business ideas. My team, for instance, consisted of two engineering and two business students. Together, we set off to develop an affordable waste management system to help tackle the problem of recycling contamination (when materials are thrown in the wrong bin hence causing the entire bag of resources not to be recycled due to contamination). We hoped that it would help improve recycling rates and reduce long-term costs in medium to large sized organisations.

I like to do a lot of volunteering in my spare time, including running Loughborough Design Society during second year. Creating a community that brings people interested in design together to share knowledge and ideas is one of the highlights of my time at Loughborough.

I have also been a Wolfson School's Action Rep planning volunteering projects such as walking sheltered dogs, helping local scouts gain their Electronics badges and promoting STEM subjects within the local community. In my final year, I will be focusing on working to support CodeLab Loughborough, a new campus-wide coding community that runs weekly coding workshops for interested students.

As a Product Design Engineering student, you'll face a lot of challenges including how to work with others who, perhaps, have different working styles or pace when you are undertaking projects. I would say learning how to work and communicate effectively with your team was a whole new challenge for me aside from the typical academic challenges. After University, I am hoping to pursue a role in project management. Then, I am thinking about doing a masters in the USA. Overall, I believe my time at Loughborough has helped me build an awareness of all the minor considerations that are integrated within product design, project management and enterprise.

As cliché as it may sound, my advice is just do it. Most importantly, just make the first step, as only you will know whether a career in Engineering is really for you.

"Loughborough has helped me build an awareness of all the minor considerations that are integrated within product design, project management and enterprise."

—
Hsin-ju (Lisa) Lo,
Third year student, BEng
Product Design Engineering



About the author

The 80's magazine was gifted by Dr Bullivant to WES Loughborough back in 2017 and the 2018 society chair Jennifer Glover endeavoured to recreate it both to archive the original document and to celebrate 100 years of Women in Engineering.

Jennifer is currently a PhD research student studying aeroacoustics in the Aeronautical Department at Loughborough University. Her PhD focuses on jet engine noise cancellation through meta-material sound proofing liners. Jennifer graduated with a Master's degree in Aeronautical Engineering in 2018 from Loughborough. In 2016 she completed a placement year at ITP Aero an aircraft engine consultancy working in both Rig Design for engine testing and Control for engine certification departments.

Jennifer is a very active member of the engineering community, being chair of Loughborough Women's Engineering Society in 2018 and currently the national Women's Engineering Society Student Groups Liaison Officer. She was also the inaugural chair of the University Groups Board at WES representing the national student voice. Ms Glover has been a STEM ambassador since 2016 volunteering in schools, encouraging students of all ages to take up a career in engineering, but particularly girls and young women. Delivering bespoke talks, workshops and activity days from ages 6-18. She is hoping to complete her PhD in 2021 and to continue to progress the diversity of the engineering community both nationally and in Loughborough University.



Original author

The original Women in Engineering magazine was devised and prepared by Dr Susan Bullivant who was a lecturer in the Department of Engineering Mathematics as well as Mrs Cynthia Onions and Mrs Pauline Marshall. The magazine formed a part of the Women in Engineering Project which worked to encourage and introduce girls to a variety of different disciplines.

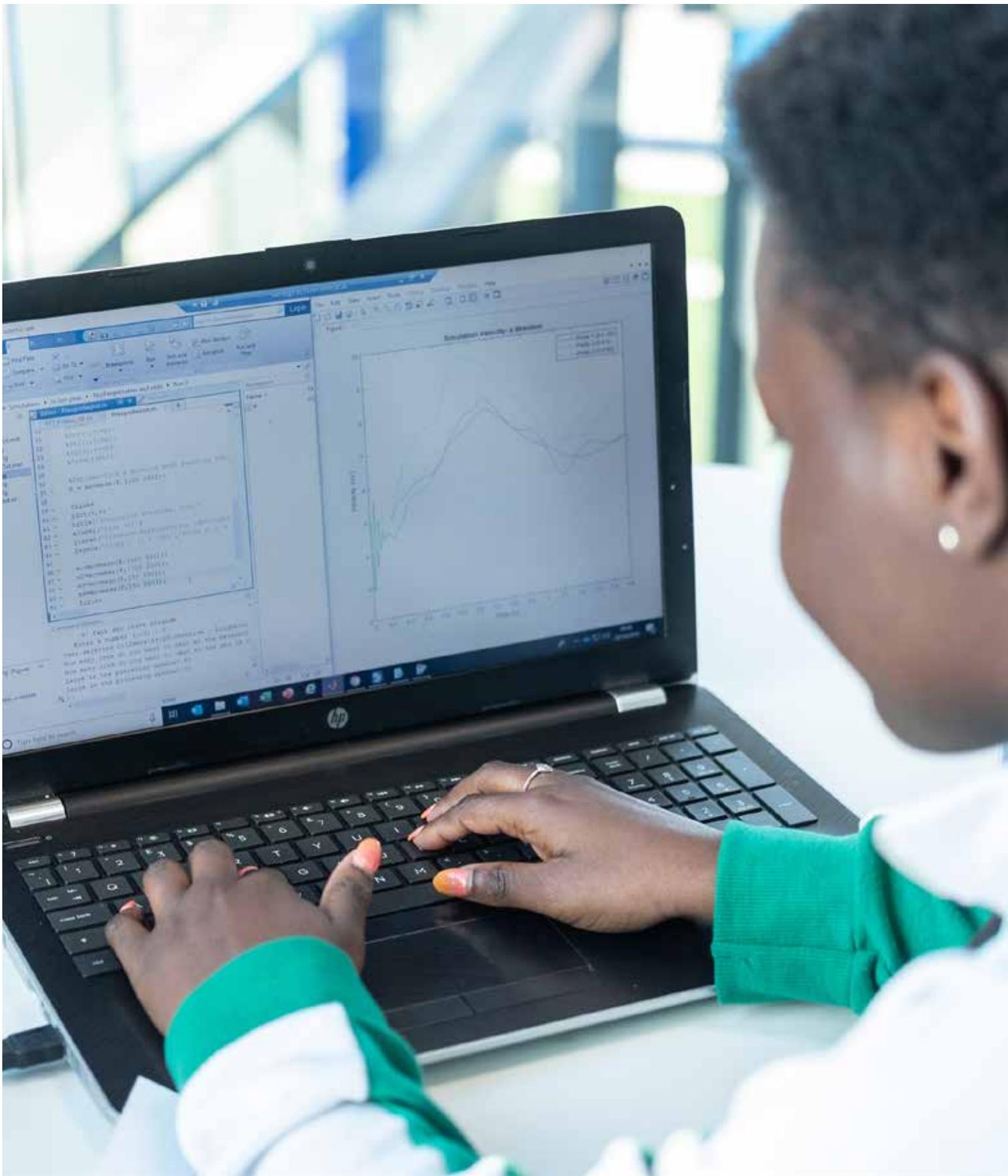
Although Dr Bullivant did not originally want to be an engineer, she developed a passion for fluid dynamics while reading mathematics at Aberystwyth University going on to study an MSc in Fluid Dynamics at Liverpool University. Susan gained her PhD at Plymouth University working in conjunction with English China Clays Ltd in Cornwall to conduct tests and mathematically model the flow properties of china clay slurries used in coating paper. She came to Loughborough in 1974 the Dept of Engineering Maths and lectured/tutored students across many engineering departments including Production, Chemical, Electrical, Civil as well as Transport Tech students.

Aware of the lack of women in engineering Susan decided to support women engineers on campus and to go into schools to talk to girls; through a connection with the national WES charity and helping form a WES group on campus.

In 1981 she was awarded a Winston Churchill Travelling Fellowship to go to the USA to study how they were getting higher numbers of women studying and working in engineering.

In 1982 Dr Bullivant moved to Cambridge starting her own consultancy business. This included writing careers literature for companies and organisations to recruit science and engineering graduates; developing and running a Women in IT course with the Women and Work unit based at Aston University Management School. From there she was appointed Founding Director of the Athena Project whose aim was to get more women from postgraduates to professors in higher education. It subsequently became the Athena Swan Programme.

Still an active member of the Women's Engineering Society Susan regularly visits Loughborough to inspire and support the current WES committee and members.



This magazine was devised and prepared by Jennifer Glover a PhD research student in the Aeronautical and Automotive Engineering department at Loughborough University in conjunction with the Marketing department for the engineering schools particularly Elinor Oultram-Turner and Emily Peers.

We wish to thank the creative print and service for their support with magazine preparation and photography by Phil Wilson as well as all engineering schools for their support and corporation with the project. We would also like to thank all the students featured for their support, time and honesty in sharing their experiences making this project a success.

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Women's Engineering Society