

Mulberry
Schools Trust



MULBERRY STEM ACADEMY

IN PARTNERSHIP WITH 
MERCEDES-BENZ GRAND PRIX

Mulberry
Schools Trust

Mulberry 
School for Girls

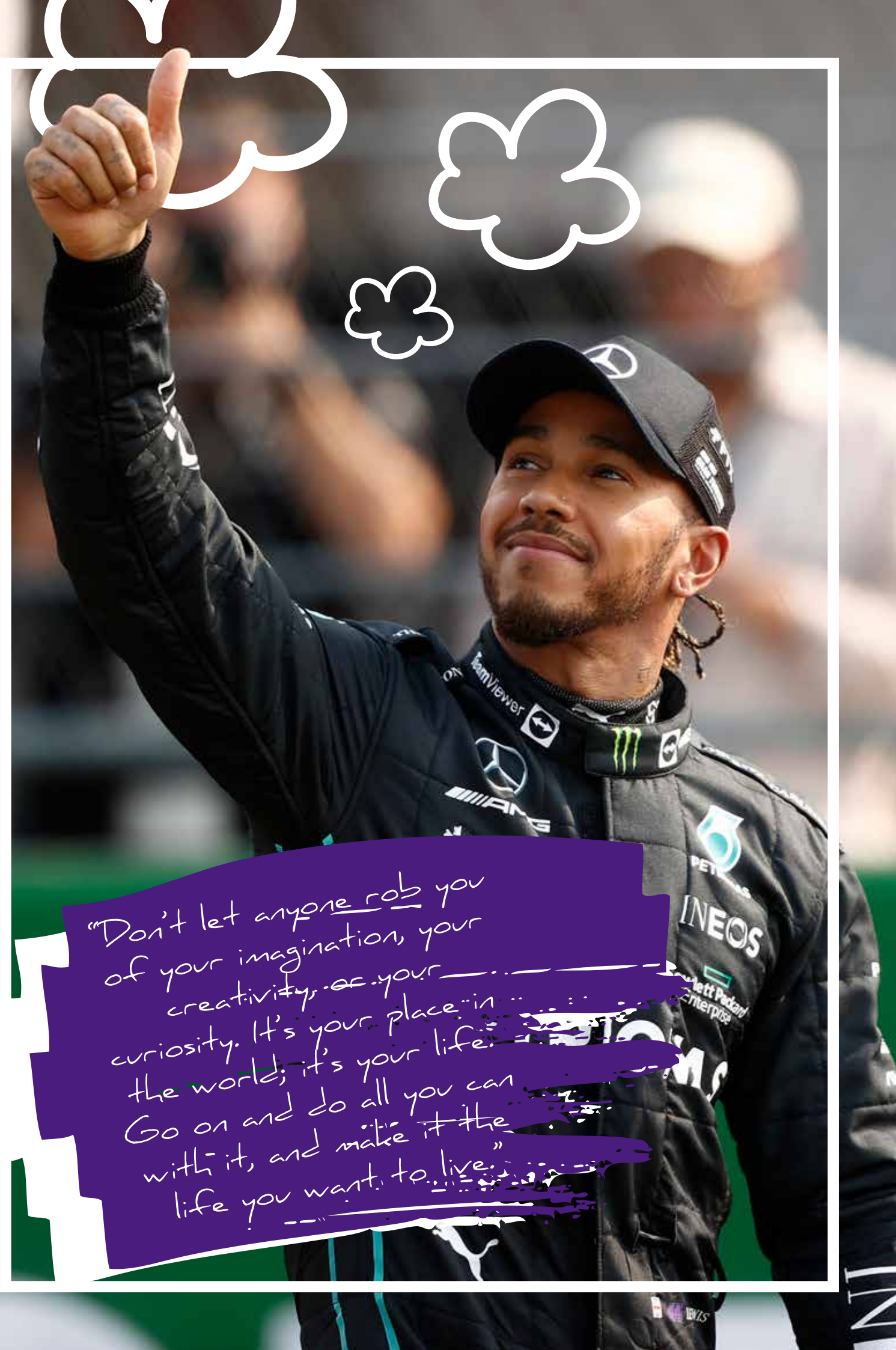
Mulberry UTC 
Where learning works

Mulberry
Academy Shoreditch

Mulberry
Stepney Green Maths,
Computing and Science College

Mulberry
Wood Wharf Primary

PROSPECTUS



"Don't let anyone rob you
of your imagination, your
creativity, or your
curiosity. It's your place in
the world; it's your life.
Go on and do all you can
with it, and make it the
life you want to live."

ABOUT US

The Mulberry STEM Academy is a place of learning, inspiration and innovation in the fields of technology, maths, engineering, physical science and design. It was set up in Autumn 2020 by the Mulberry Schools Trust (MST) in partnership with Mercedes-Benz Grand Prix Ltd – two high performing organisations in their respective fields of education and motorsports.

The academy is a powerful supplementary provision providing a specialised track for children and young people aged 7 to 18 who have talent, passion and aptitude in STEM (science, technology, engineering and maths) education.

OUR ACADEMY IS A PLACE WHERE:

- The UK's future inventors, designers, analysts, technicians and entrepreneurs can further develop their talent, passion and aptitude for STEM and stretch their academic and technical capabilities.
- Specialised study includes a wide range of experiences of the world of work and technical practice, including mentoring, networking, access to expert workshops, webinars and work experience.
- Imagination, innovation and invention combined with aspiration, agility and ambition are the characteristics developed within our learners, so they leave us determined to make their mark in STEM and bring wider benefits to society, both economically and socially.
- Passion, Respect, Innovation, Determination & Excellence are the shared values between MST and Mercedes-Benz Grand Prix Ltd as we work together to open up the potential for employment with the team and within the motorsport industry.



SUPPORTING YOUNG TALENT
IN SCIENCE, TECHNOLOGY,
ENGINEERING & MATHS



OUR GRADUATES

Graduates of the Mulberry STEM Academy will leave with a passport into engineering, design and science-based industries.

They will be highly desirable employees for Mercedes-Benz Grand Prix Ltd and for the wider field. They will make a positive lasting contribution to engineering, design, technology and science - not just because of the rewards in leading cutting-edge practices, but also because there is a beauty in high performance engineering of any kind, and a personal fulfilment in being the best at what you do.

OUR SHARED VALUES



PASSION
RESPECT
INNOVATION
DETERMINATION
EXCELLENCE

CURRICULUM & PATHWAYS

The Mulberry STEM Academy will run for all students on Saturdays during term time and school holidays (Autumn, Spring and Summer half terms and the long Summer break).

There will also be termly STEM 'super-learning days' for primary school age children within MST's secondary schools, so they can experience the specialist labs and other resources.

The academy supplements the core STEM delivery in the daily mainstream school curriculum for all students.

KEY STAGE 2

The Mulberry STEM Academy delivers the STEM Academy roadshow for children aged 7-11.

The taster days include:

- A problem solving, practical investigation; most of these are design, manufacture and evaluation which all form part of the nationally accredited 'CREST awards' scheme and are one of the 'superstar' awards.
- Learning to code.
- A feedback session in which students develop a presentation using Power point, animation, video and sound.
- Practical activities and experiments.
- Holiday programmes will take major themes in Formula One and run projects that allow for deep immersion.



KEY STAGE 4

The Mulberry STEM Academy offers 50 places for 14-16 year olds. Students will participate in Saturday and school holiday activities.

This will include:

- Computer programming; all students will learn Python and advanced programming.
- GreenPower – students will build and race an electric powered car.
- The CREST Silver Award will be implemented through a series of real life problem solving challenges.
- Further projects will be developed with Mercedes-Benz Grand Prix Ltd, including trips to their headquarters in Brackley and Brixworth.
- The teaching of robotics, using Pepper, the Mulberry Schools Trust's robot.
- Masterclasses and seminars.
- A business mentor allocated to each individual from STEM related careers, to serve as a guide/role model/industry expert and support with careers advice.

Holiday programmes will take major themes in Formula One and run projects that allow for deep immersion.



KEY STAGE 5

In their own schools, students will be studying A-levels in STEM subjects or technical qualifications in engineering or applied sciences.

The Mulberry STEM Academy offers 50 places for 16-18 year olds.

This pathway will support higher achievement in STEM subjects and further develop the personal characteristics required by competitive STEM industries such as team work, determination, collaboration and respect. The pathway's content will be designed to encourage higher numbers to apply and be accepted for degree courses and degree apprenticeships specifically in engineering, computer science, maths and physics.

Saturdays and holidays will feature as the delivery space for KS5 programmes and they will include:

- An allocated industry mentor and a school-based subject mentor who will support and guide in UCAS applications and destinations.
- Trips and activities including to Mercedes-Benz Grand Prix Ltd headquarters along with work experience and work shadowing.
- A Python advanced programming qualification.
- Seminars, master classes and university visits, including a residential at a Cambridge College.

All projects will relate to the A-level specifications. Students will all complete the EPQ (extended project qualification) on a STEM related topic. The Mulberry STEM Academy will tutor the students through the qualification.



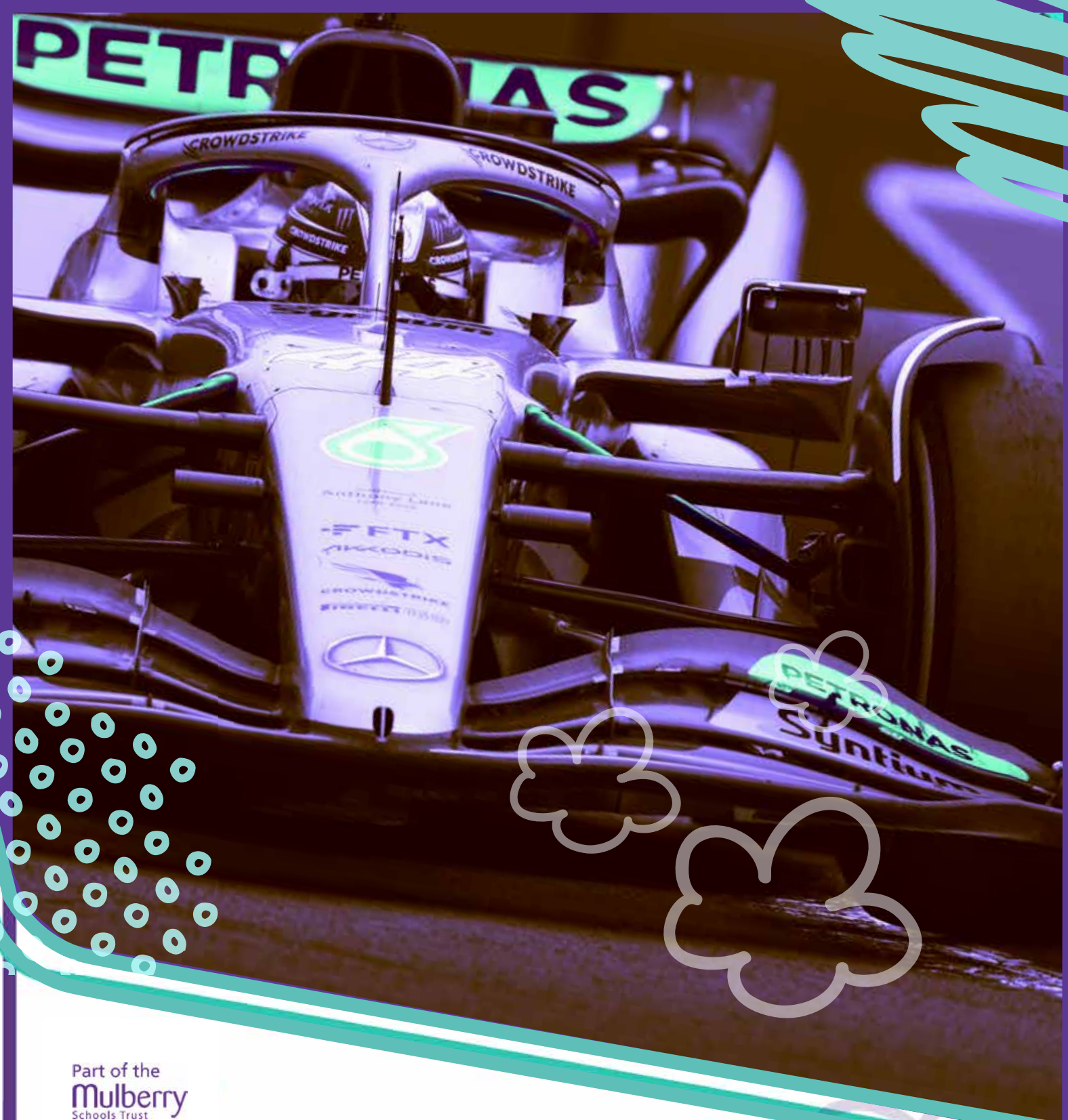
HOW TO APPLY



The recruitment process consists of a letter of application, presentation and interview.

FOR FURTHER DETAILS, PLEASE CONTACT:
STEMACADEMY@MULBERRYSCHOOLSTRUST.ORG

TO APPLY, PLEASE VISIT:
WWW.MULBERRYSCHOOLSTRUST.ORG/STEMACADEMY



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