

# Liverpool at the forefront of COVID-19 research



LSTM Responds



LIVERPOOL SCHOOL  
OF TROPICAL MEDICINE

Since 1898



**LSTM was created by the visionary industrialists of Liverpool**, who recognised the devastating impact of tropical diseases over 120 years ago. It continues to be a world-renowned and leading centre of excellence in global health, at the heart of Liverpool's Knowledge Quarter.

A healthcare worker in full personal protective equipment (PPE) is shown in a clinical setting. The worker is wearing a yellow hard hat, a clear face shield, a blue protective gown, and a white surgical mask. They are focused on a task, likely a medical procedure, as they lean over a patient whose back is visible in the foreground. The background is a brightly lit hospital corridor with white walls and doors.

**Clinical staff at LSTM have been redeployed** to support frontline efforts around the world, including in Liverpool's NHS hospitals.



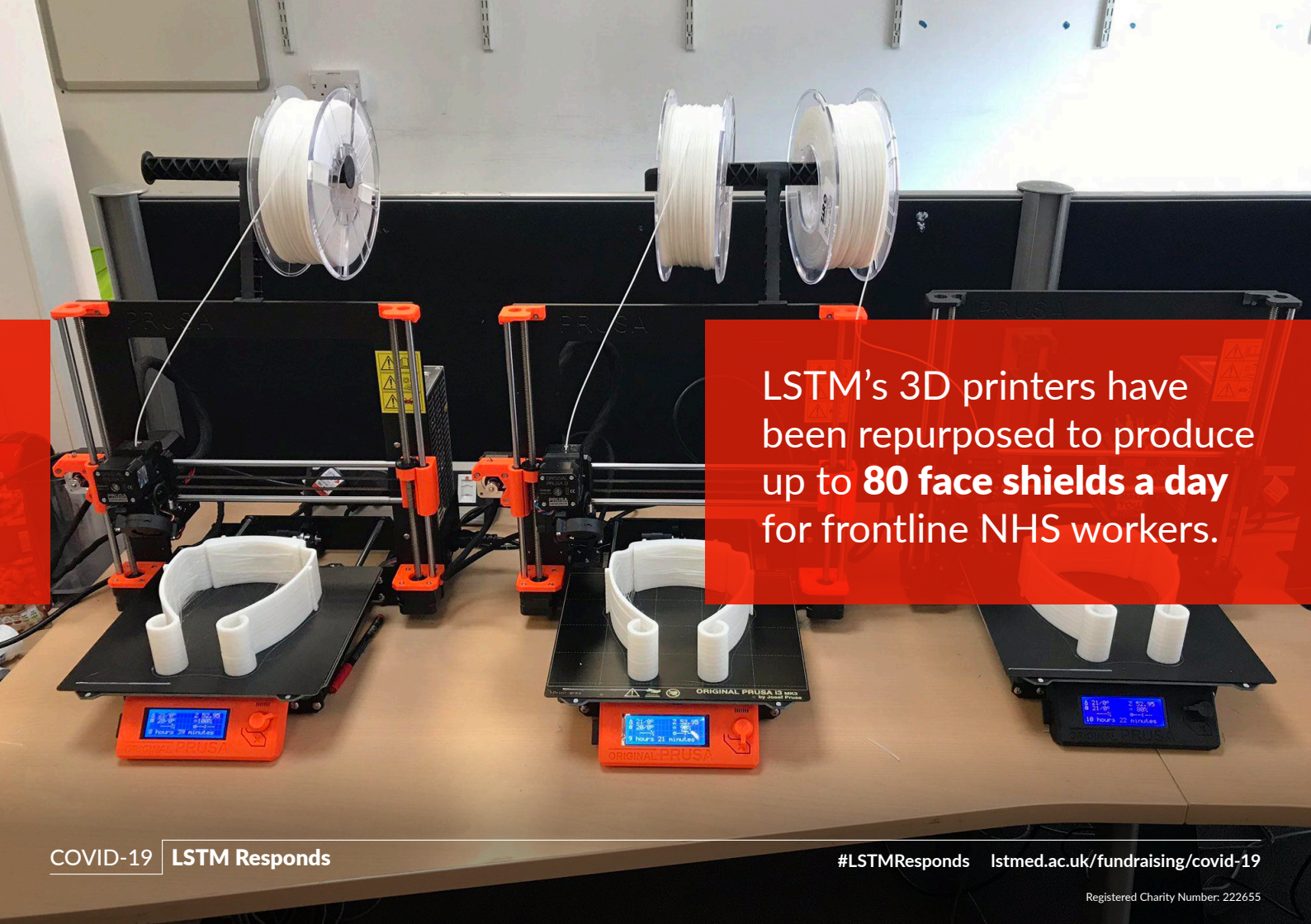
**LSTM is a member of a global coalition** to accelerate desperately needed COVID-19 research in those areas where the virus could wreak havoc on already-fragile health systems and cause the greatest health impact on vulnerable populations.

In partnership with Pfizer,  
our FASTER study aims to  
understand how **bacterial  
pneumonia leads to severe  
COVID-19 infections.**  
The partnership also works  
to develop COVID vaccines.

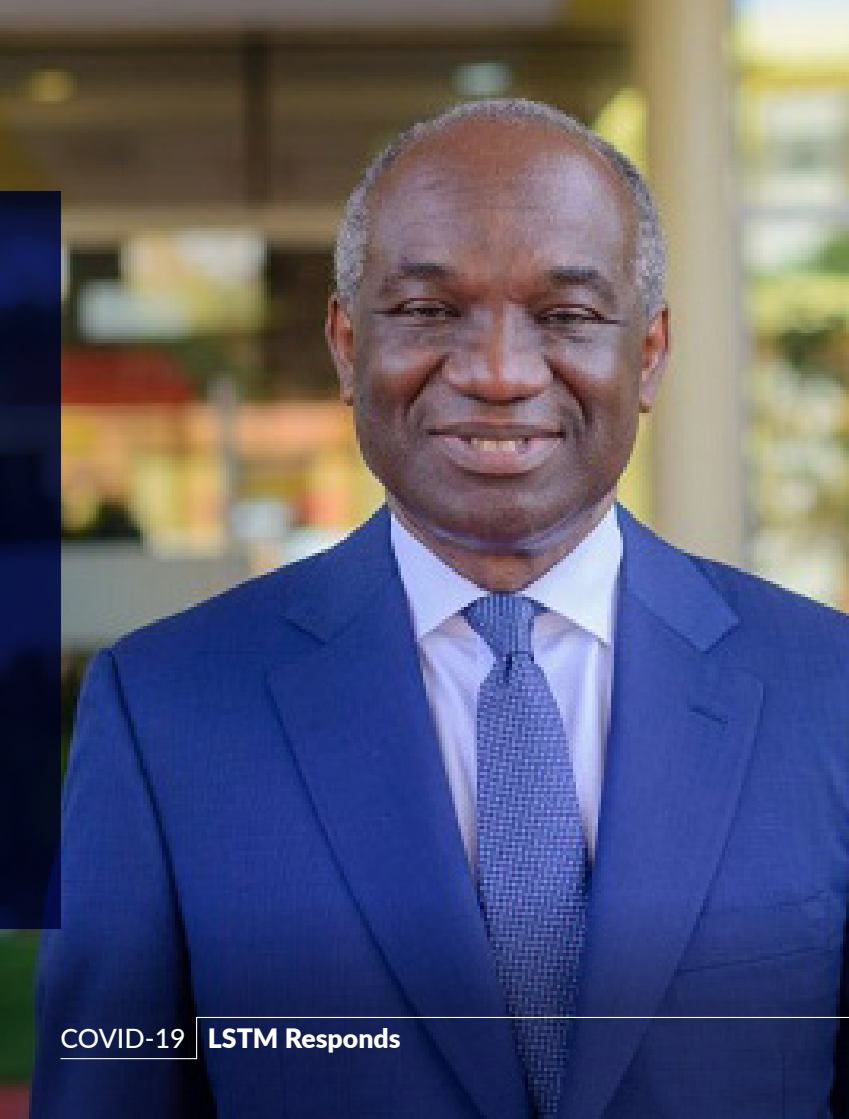


**Our teams at Malawi-Liverpool-Wellcome Trust (MLW)** are leading a major project on diagnostics, surveillance and control to support the fragile healthcare system and deliver excellent research for current and future epidemic disease threats.



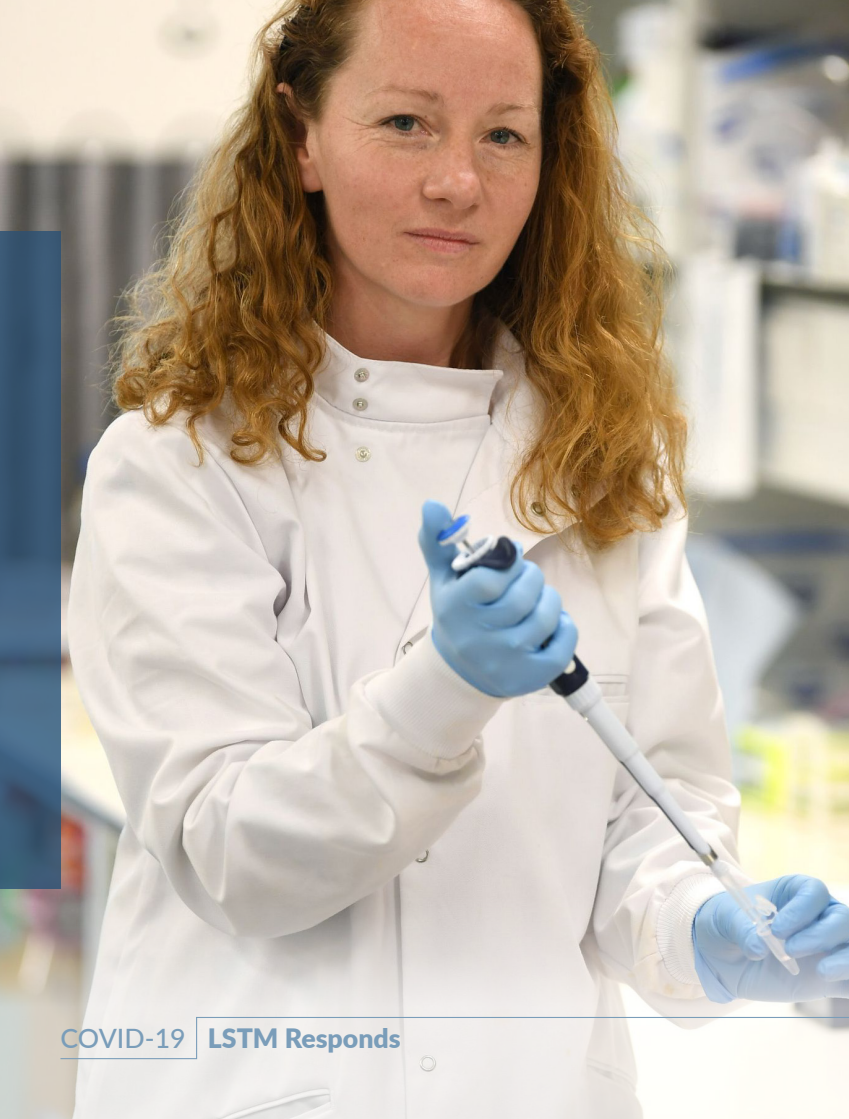


LSTM's 3D printers have been repurposed to produce up to **80 face shields a day** for frontline NHS workers.



**LSTM alumni around the world are playing their part to tackle COVID-19,** including alumnus Dr Anarfi Asamoah-Baah (MSc Community Health, 1989), former Deputy Director-General of the World Health Organisation, who is leading Ghana's national response.





**LSTM has independently validated a new rapid diagnostic test for COVID-19** which is currently being manufactured and will be prioritised for health services and key worker communities in the UK and Africa.



**The Centre for Drugs and Diagnostics at LSTM** has helped train staff and upgrade laboratories to create more facilities to maximise screening and validation of potential drugs and diagnostics to target COVID-19.



LSTM's Education programmes are being redeveloped to provide **open access resources on regional pandemic response strategies across the world.** This will provide a key resource for students, researchers and the public to understand what we can learn from COVID-19 and how we better prepare for future pandemics.

# A global response

**The work of the Liverpool School of Tropical Medicine has never been so important.**

Viruses and pathogens are mutating or developing resistance at an increasingly alarming rate. Rather than the disease map shrinking, environmental change, urbanisation and travel mean that diseases are emerging and spreading at unprecedented rates. The World Health Organization (WHO) lists many diseases which have the potential to cause public health emergencies, but for which there are currently no effective drugs and/or vaccines. As recent events have shown, global pandemics do not respect geographical boundaries, and a globally focused effort is needed to combat them. LSTM is playing a key role in this global response.