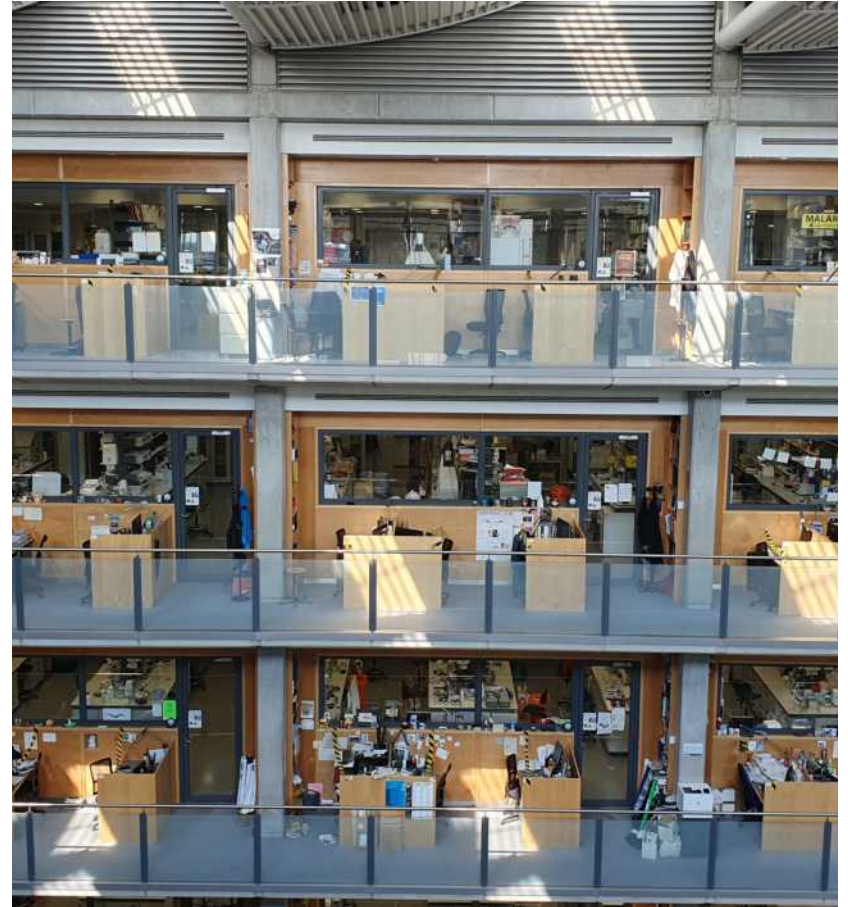


Technical Experience over Covid-19

Allison Hunter

Technical Operations Manager
Department of Life Sciences

11 Nov 2020



University lab experience of Covid-19 lockdown

- a) Successful continuation during initial lockdown
 - b) Sharing resources
 - c) Re-opening to more research lab work
 - d) Benefits to come out of the lockdown process
 - e) Post Covid-19 future
-

a) Successful continuation during lockdown

- Communications and collaboration
- Flexibility of staff
- Working safely:
Safezone app
- New Covid-19 projects



b) Sharing resources



APPROVED METHODOLOGY FOR PRODUCTION AND PROCESSES

INFORMATION FOR INSTITUTIONS EMERGING FROM LOCKDOWN

ONLINE TRAINING AND WEBINARS FOR TECHNICIANS

- Volunteering (Roya Haghighat-Khan)
- Visors (FAC Technology)
- Hand sanitiser information (Eddie Hartrick Safety Department)
- Approached Terry Croft
National Technician Development
Centre (NTDC) to host pages
<https://nationaltechnicianscentre.ac.uk/covid-19-resources/>
- Crick Covid-19 testing added later
- Contacted Cabinet Office

Availability of personal protective equipment

- Manchester Met and Northern Powerhouse consortium
- <https://www.mmu.ac.uk/news-and-events/news/story/12429/>
- “The sourcing, manufacturing and distribution of PPE should be designated as being a sub-sector of one of the UK Government’s Critical National Infrastructure (CNI) sectors”



<http://www.factechology.com/category/covid-19/>

c) Re-opening to more research lab work

- Building routes, signage
- Reopening checklist
- Technician shifts
- Online safety induction
- Online PPMS lab bench booking system (Pat Evans) for contact tracing



College's Code of Conduct

- You must comply with the - <https://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/safety/public/Imperial's-Code-of-Conduct.pdf>),
- including ensuring that you are familiar with the content of the College's [COVID-19 Health and Safety Policy](#).

Failure to comply with the rules on social distancing and the wearing of face masks:

access immediately suspended

It is especially important that you remember that you must observe social distancing when talking to colleagues.

PPMS Booking System: Pat Evans

PPMS for the Life Sciences Facilities at South Kensington (SK) -

DoLS_SK

[Home](#) [Book](#) [Order](#) [Request](#) [Documents](#) [Schedules](#) **[Statistics](#)** [Reports](#) [Profile](#) [Logout](#)

[Incidents](#) [Rights](#) [Training](#) [Orders](#) [Settings](#) [Users](#) [Accounts](#) [Help](#)

Usage Statistics

Hide options

All systems (with "stat" activated)

FLOW AUX LABS
CBS Filloux (SAFB CBS)
CBS Frankel (SAFB CBS)
CBS Frankel 2 (SAFB CBS)
CBS Robertson (SAFB CBS)
FLOW 1 Clean TC Room (FLOW G 1.31)
FLOW 1 Dirty TC Room (FLOW G 1.35)
FLOW 1 Microscopy Room (FLOW G 1.35)
SECB 2 A Frankel (SECB 208)

Any group

Any user

Any affiliation

Any type

1 year

Until current month (included)

any

any

any

filter

filter

Booked time

go

Default view

* only relevant if usage monitoring is used

Booked time (in hours) per month

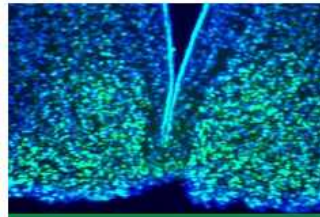
[per week][per year]

any group, any user, any affiliation, all systems with stat

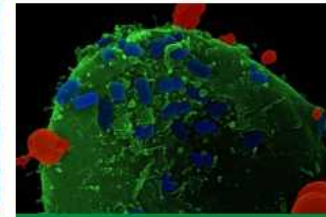
Reopening signage



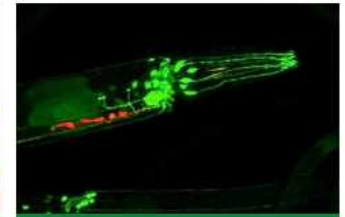
<https://www.youtube.com/watch?v=2QAYf9oXtJk>



Anaesthesia, sleep and pain



Bacterial pathogenesis



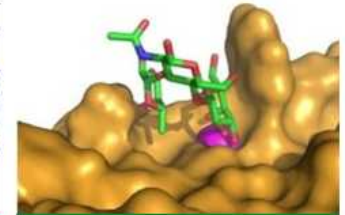
Cell and developmental biology



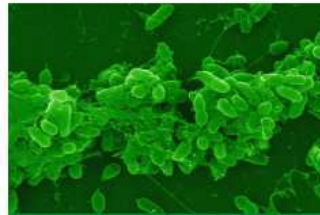
Ecosystems and the environment



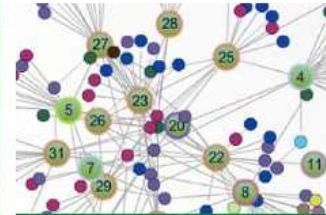
Evolutionary biology



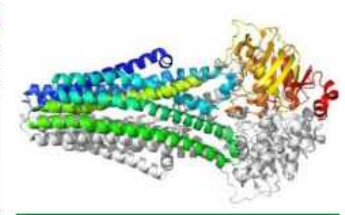
Glycobiology



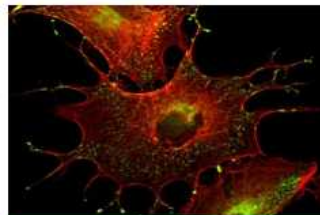
Infection and immunity



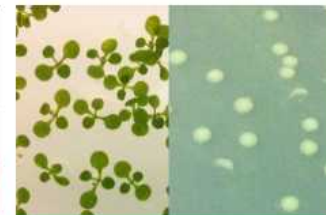
Integrative systems biology



Membrane biology



Molecular mechanisms of disease

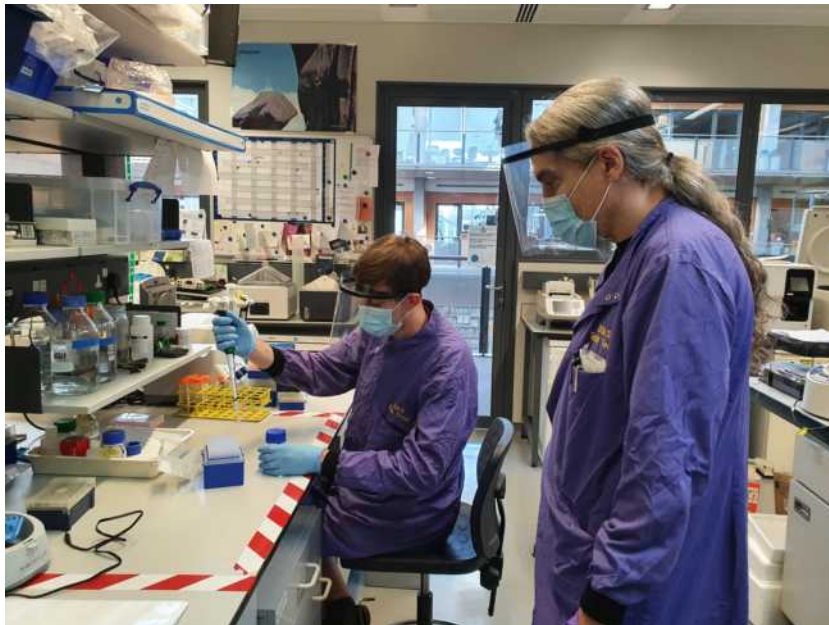


Molecular Plant and Microbial Systems



Synthetic biology

Under and over 2m working distances



COVID-19
Face covering guidance in laboratories

Teaching Labs: Dave Featherbe Chief Teaching Technician

Laboratory

- Teaching techs meet and escort first and second years to wet labs
- PPE and local lockers provided
- Ventilation assessed
- Sanitisers and disinfectant points
- 2m distancing on lab bench spots
- Close up filming of pinch points and equipment usage
- Online Teams for live remote access

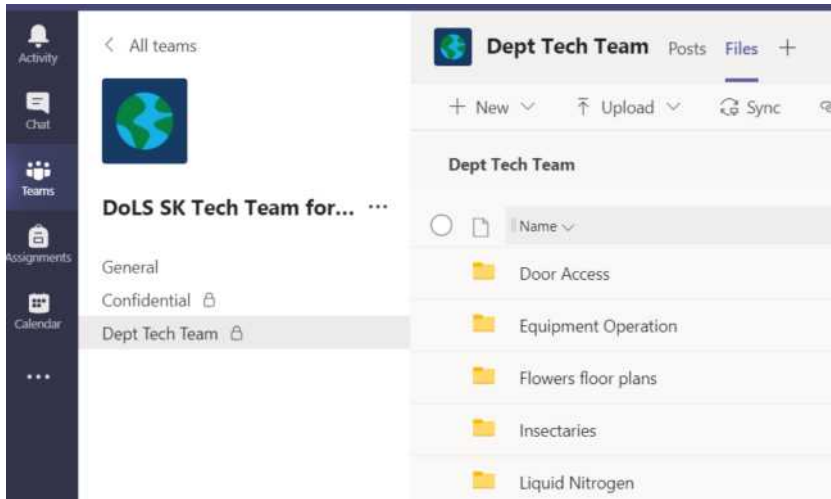
Computer rooms (James Andrewes)

- One way systems, 2m distancing
- Disinfectant wipes provided
- Individual microphone lanyards



Photo courtesy of Prof Geoff Baldwin
First day of term: MRes course

d) Benefits to come out of lockdown process



- Increased digital literacy
- Online: meetings/ teaching/ CPD & training
- Flexible working hours
- National Technician Development Centre survey: optimism
- Collaboration at work

<https://sciencecouncil.org/covid-tech/>

COVID-19:

The Impact on Technicians in UK Higher
Education & Research

Download the report:

sciencecouncil.org/covid-tech



Technician **Commitment**



National Centre for Universities and Business (NCUB)



10 collaboration case studies:

vaccines, ventilators, PPE, testing, apps, mental health, blood monitoring

https://www.ncub.co.uk/index.php?option=com_docman&view=download&alias=458-final-collaboration-in-crisis&category_slug=reports&Itemid=2728

National Technician Development Centre (NTDC)

<https://nationaltechnicianscentre.ac.uk/2020/08/13/ntdc-report-impact-covid-19-technicians/>



Survey results: key workers

Technician Development Fund

<https://nationaltechnicianscentre.ac.uk/2020/09/01/ntdcs-new-funding-opportunity-technicians/>

TechMeet

<https://nationaltechnicianscentre.ac.uk/2020/07/22/roundup-new-ntdc-techmeet-forum/>

Nautical analogies: Maritime Safety

- 1816 343 ships lost 945 drowned
- 1830s: examinations and certificate of competency being allowed to officer a vessel

Bovill, Donal Guy (1987) Education of mercantile mariners in the north east ports (1840-1902) Durham theses, Durham University <http://etheses.dur.ac.uk/7111/>



The Steam Ship President last seen 12 March 1841

First Mate Certificate of Competency

OFFICE DUPLICATE.

By the Lords of the Committee of Privy Council for Trade.

Certificate of Competency
as
FIRST MATE FOR FOREIGN-GOING STEAMSHIPS ONLY.

To James Henry Hunter,

Whereas it has been reported to us that you have been found duly qualified to fulfil the duties of **First Mate** of a **Foreign-going Steamship** in the Merchant Service, we do hereby, in pursuance of the Merchant Shipping Act, 1894, grant you this Certificate of Competency.

By Order of the Board of Trade,
this 9th day of June 1922.

Countersigned,
[Signature]
Registrar General.

[Signature] { One of the
Assist. Secretaries
to the
Board of Trade.

Registered at the Office of the Registrar General of Shipping and Seamen. [Signature]

Master Certificate of Competency

OFFICE DUPLICATE

CERTIFICATE OF COMPETENCY

AS

MASTER

OF A FOREIGN-GOING STEAMSHIP

No. 0014067

To James Henry Hunter

WHEREAS it has been reported to us that you have been found duly qualified to fulfil the duties of Master of a Foreign-going Steamship in the Merchant Service, we do hereby, in pursuance of the Merchant Shipping Acts, grant you this Certificate of Competency.

BY ORDER OF THE BOARD OF TRADE, this 30th day of July 1925

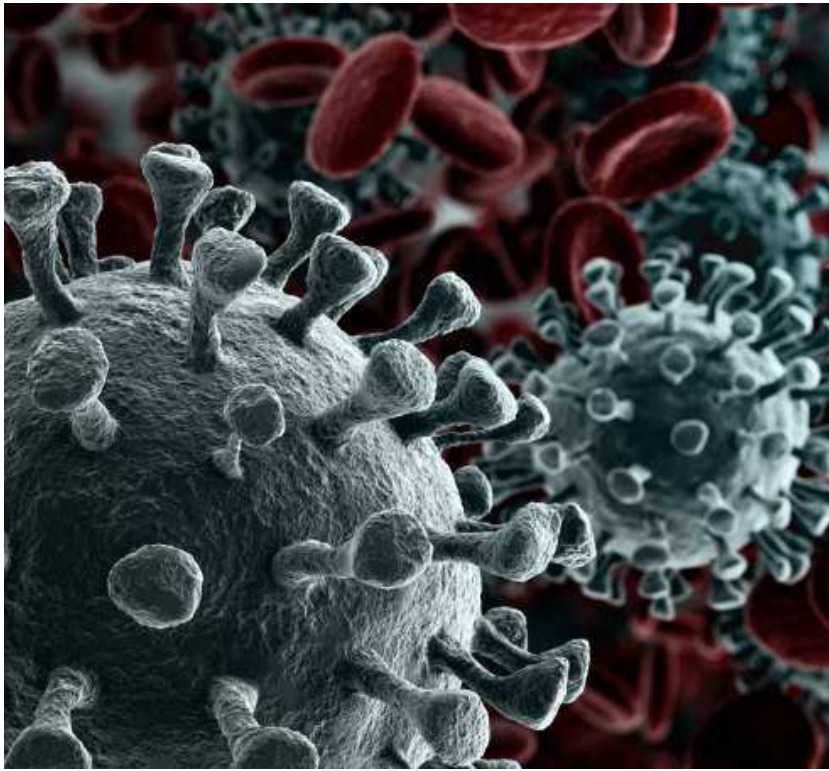
Countersigned [Signature]

Registrar General

One of the Assistant Secretaries to the Board of Trade [Signature]

REGISTERED AT THE OFFICE OF THE REGISTRAR GENERAL OF SHIPPING AND SEAMEN
(16348)

e) Post-Covid-19 Future



- Education
- On going training
- Relevant & meaningful experience
- Certification of competency

Visors and Disposable Face Masks



Visors:

- One each visor and face shield
- Reuseable after cleaning
- Stocks on level 5 SAF and Silwood

Disposable face masks

- Wear for no more than 4 hours
- Clear bags for temp. storage provided, if popping in and out
- Exemptions in CL3, insectaries – visors only
- Distributed at SK by end of week

Shortage of technicians is hampering innovation in UK

<https://www.gatsby.org.uk/uploads/education/technicians-and-innovation.pdf>



GATSBY

Technician Commitment Institutional Leads

Progress with
funding for
professional
registration

Technician
Commitment
action plans

Professional
registration
update

Cross-
institutional
training

Cross-
institutional mini
secondments

NTDC

Furloughing

UK Research and Innovation (UKRI)



Technicians receive support from the UK's largest research funder

https://www.ukri.org/news/technicians-receive-support-from-the-uks-largest-research-funder1/?utm_source=LinkedIn&utm_medium=social&utm_campaign=SocialSignIn&utm_content=.Social+Team%3A+funding+calls+and+events

UK Research and Innovation (UKRI)



**Equality, Diversity
and Inclusion:
A Technician Lens**

M 58% F 41%

14,375 FTE

6% Disability

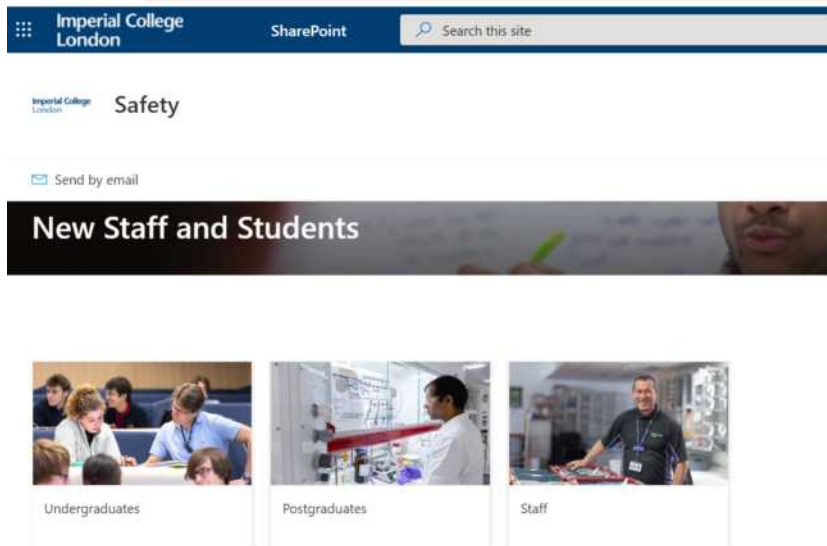
10% BAME

<https://www.ukri.org/about-us/equality-diversity-and-inclusion/a-technician-lens/>

Faculty Safety: <https://www.imperial.ac.uk/natural-sciences/staff/health-and-safety/>

15 min video campus
guides:

- UG
- PG
- Staff



<https://imperiallondon.sharepoint.com/sites/fons/faculty/safety/SitePages/New%20Staff%20and%20Students.aspx>

<https://www.imperial.ac.uk/occupational-health/covid-19-contact-tracing-hub/>

