

Elizabeth Mills & Morgan Riddiford



# Educational Development Plans for Biomedical Career Progression

UNIVERSITY OF  
WESTMINSTER 



# Elizabeth's Background

## Secondary School

9 Strong GCSE passes

## Work

14 years as a business owner

COVID 🤪

Change of career and subsequent new learning journey



\*\*Family photo – all permissions gained to share\*\*

# Morgan's Background

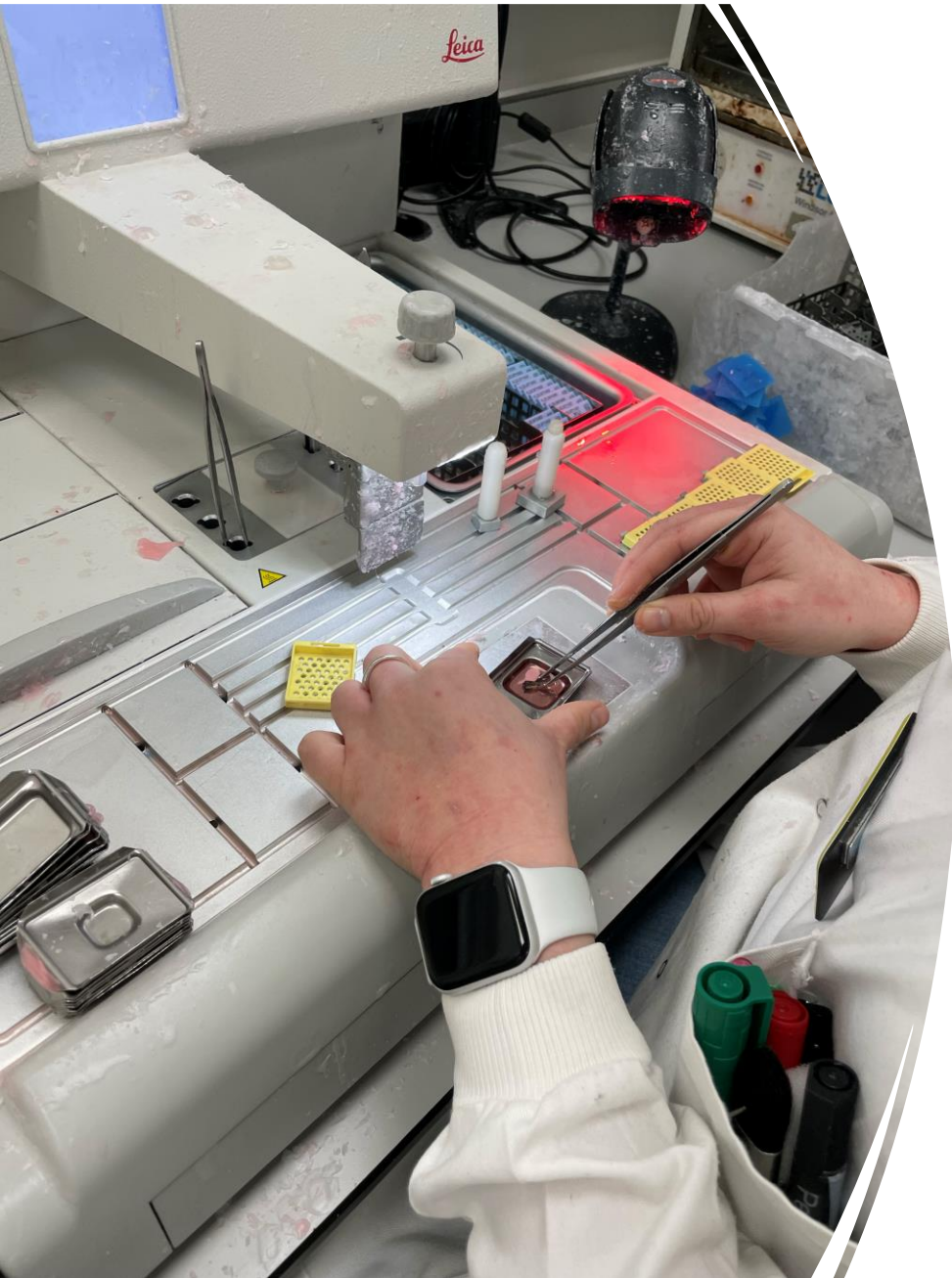
## Secondary School

- 4 A-levels
- 1 AS level
- 1 EPQ – Focusing on Psychological and Biological Mechanisms of Psychopathy

## Royal Holloway University of London (2017-2020)

- RBS accreditation of a BSc Degree in Biology
- Passport Award – Gold Standard from the University
  - Volunteering for PhD students in marine micro plastics
  - Biodiversity Education within Primary Schools
- Human Biology to Ecology, Animal Physiology, Plant Science and Statistics
- Achieved a 1:1 Honours Degree
- Trampolining for the University
- Student Ambassador





# Initial Step into Pathology

---

## 2020 - Applied for a Band 2 Healthcare Support Worker

- Lacked Human Biology within Degree/Prior Education
- Clinical/Non-Clinical Healthcare Placements
- Histology
- Data Entry – Patient Information
- Delivery of Specimens
- Watching/Assisting of Cut-Up Dissections
- Experienced Multi-Disciplinary Meetings as observers
- Greater Understanding of Pathology



# Current Career Progression

## Band 3 – Medical Lab Assistant

- Greater Skill Set
  - Embedding
  - Extra Work for Immunohistochemistry
  - Microtomy
  - Slide Sorting/Compiling Cases
  - Quality Control
  - Processors/Reagent Control
- Conducting Audits
- Chemical Monitoring



***MTW Histology Team***

UNIVERSITY OF  
WESTMINSTER 

# Apprenticeship Scheme – Elizabeth Mills

# Application for Apprenticeship



## What Do I Need to Apply?

- [Relevant higher education \(level 3\) qualification](#) \*\*Hyperlink to University of Westminster Course\*\*
- **A levels** - BBC to ABB (112 to 128 UCAS Tariff points) to include two science subjects from Biology, Chemistry, Physics or Maths
- **International Baccalaureate** - 27 points to include a minimum of 4 in two Higher Level science subjects. We also welcome applications from students taking the IB Career related Programme
- **BTEC Extended Diploma** - DMM to DDM in Applied Science
- **BTEC Diploma** - D\*D\*
- **Access** - 112 to 128 UCAS Tariff points from the Access course

In addition to one of the above, you should have:

- **GCSE English Language** grade 4/C - IB grade 4 Higher Level, **GCSE Maths** grade 4/C - IB grade 4
- **Relevant work experience/current role**
- **IBMS Accredited Degree**
- [Funding Availability](#)





# What Do I Need To Do – Next Steps

- Needing Level 3 Qualifications to apply;

*Distance Learning Courses to enable me to work full time and study:*

1. [Gain Biology A Level](#)



2. [Gain STEM Access Course](#)



3. [Access to HE Diploma \(Science\)](#)



DistanceLearningCentre.com

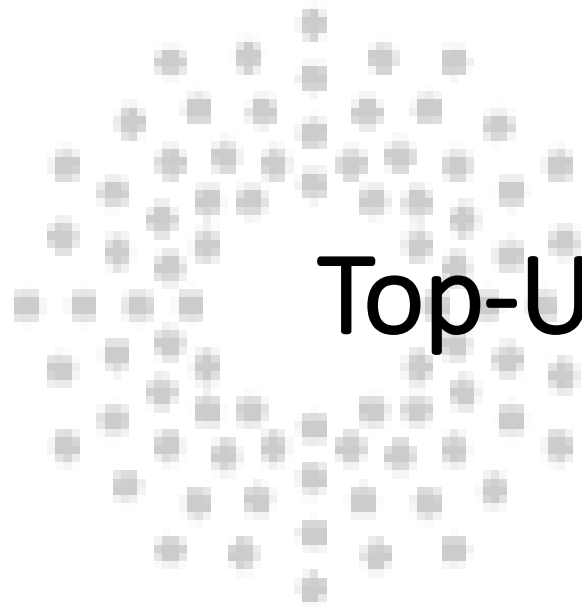
Online courses to suit your lifestyle

4. Find Accredited Program through my hospital trust

# Apprenticeship Information

## **Applied Biomedical Science BSc Honours Degree with Healthcare Science Practitioner Apprenticeship.**

- Degree: 4 Year duration; lectures, seminars, practical laboratory work, group activities, tutorials – Assessed through a combination of exams and coursework.
- Apprenticeship: 4 Year duration; work-based training, Off the Job Log with links to [Apprenticeship Standards](#), HCPC and IBMS registration, tutor and trainer support with reviews, End Point Assessment
  - Off-The-Job training must make up at least 20% of your normal working hours (paid hours excluding overtime) over the planned duration of the apprenticeship.
  - This does not include progress reviews and on-programme assessment, but it can include practical training, for example, shadowing, mentoring or industry visits.
  - As well as campus-based learning at the University, Off-The- Job training can be delivered in the workplace, provided it is directly relevant to the apprenticeship standard and involves learning new knowledge, skills and behaviours.



# Top-Up Modules – Morgan Riddiford

LONDON

METROPOLITAN

UNIVERSITY

# Application for Top-Up Modules

## What Was I Missing from My Degree?

- RBS accredited **NOT** IBMS Accredited

## Next Steps

- IBMS Degree Assessment
  - Course Module Descriptions – 3 Years
  - University Transcripts
  - Personal Details
  - Project and Dissertation Assessment
- Total - £309 (Non-Refundable)

Review Form for the Assessment of Non-Accredited Degrees	
<b>Basic Knowledge</b>	
<i>The following subjects are core areas that underpin the key laboratory specialities but are required separate to them.</i>	<b>Assessment Outcome</b>
<b>Human Anatomy and Physiology</b>	Accept (A) or Require (R)
Subject areas should refer to:	
1. Structure, function and control of the human body,	A
2. Component parts and major systems (cardiovascular, respiratory, digestive, renal, urogenital, nervous and endocrine) and their relationship to each other.	A
<b>Candidates Overall Assessment Outcome:</b>	<b>A</b>
<b>Biochemistry</b>	Accept (A) or Require (R)
Subject areas should refer to:	
1. Key chemical principles relevant to biological systems;	A
2. Structure and function of biological molecules (carbohydrates, lipids, proteins);	R
3. Biochemistry of processes which support life, including cellular metabolism and its control.	R
<b>Candidates Overall Assessment Outcome:</b>	<b>R</b>
<b>Cell Biology</b>	Accept (A) or Require (R)
Subject areas should refer to:	
1. The structure and function of prokaryotic and eukaryotic cells.	A
2. Cell division, cell cycle.	A
3. Stem cells, cell specialisation, and cooperation.	R
<b>Candidates Overall Assessment Outcome:</b>	<b>A</b>
<b>Molecular Biology and Genetics</b>	Accept (A) or Require (R)
Subject areas should refer to:	
1. Structure and function of DNA, RNA and proteins with regard to structure and function of genes and principles of inheritance;	A
2. Genetic disorders with biomedical significance;	R

# Top-Up Application - London Metropolitan University

- IBMS Degree Outcome – Outlines Topics Which to Complete to achieve an Accredited Degree
- List of Universities which are accredited to Apply From
- Why London Met?
  - IBMS Accredited
  - Local to Kent – Train Ride
  - Coursework Based Modules
    - 20% Quizzes
    - One Personal Learning Log
    - One Essay Based on the Module
  - Prices were between £670 and £910 depending on the amount of credits
  - Applied Online Using their Online Portal
  - Emailed a Response – Highlighting the Modules that were needed and a preferential order to start them



Outlined below are the list of modules that you need to complete for your CPD or to satisfy IBMS requirements. We have suggested an order in which we feel you should attempt these modules, if you would like to change this due to your working arrangements, please feel free to contact us to discuss.

You may be registered on a maximum of two modules at any one time. On completion of modules you may register further modules up until 30th March. All modules must be completed by July within the same academic year. For example, if you register onto a module in October of this academic year it must be completed by July of this academic year. Similarly, if you register onto a module in March of this academic year, it must still also be completed by July of this academic year. It is not possible to carry over modules to the next academic year if you fail to complete them in time. If you are required to complete a Project module you cannot enrol on this module until all of your taught modules have been completed.

Modules required for IBMS top-up (modules are listed in the suggested order of completion):

- BM7012DL: Introduction to General Biochemistry (10 credits)
- BM7101DL: Introduction to Immunology (10 credits)
- BM7105DL: Introduction to General Microbiology (10 credits)
- BM7104DL: Introduction to Cellular Pathology (10 credits)
- BM7103DL: Introduction to Clinical Biochemistry (10 credits)
- BM7107DL: Introduction to Clinical Immunology (20 credits)
- BM7109DL: Introduction to Clinical Genetics (20 credits)
- BM7100DL: Introduction to Haematology (10 credits)
- BM7102DL: Introduction to Transfusion and Transplantation Science (10 credits)
- BM7106DL: Introduction to Medical Microbiology (20 credits)

# Where Are We Now & Next Steps

- Completed our 1<sup>st</sup> Year of Studies:
  - Morgan; first of two years for my Top-Up Modules (5 out of 10 modules complete)
  - Liz; first of four-year course
- Collecting Evidence for Registration Portfolio
  - Evidence can be deemed relevant up to 3 years – on apprenticeship program relevant from start of course, equivalent to 4 years before expiration.  
Morgan; After my Second Academic Year – Applying for Registration Portfolio  
Liz; Currently incorporated into studies and workshops
  - Drafting Sections of the Portfolio
- Aim to apply for a Band 5 position after Modules are complete – As a Trainee Band 5, or Full Band 5 with HCPC and IBMS registrations.

Final Goal



**MTW**

**Exceptional people,  
outstanding care**



[www.hcpc-uk.org](http://www.hcpc-uk.org)

**hcpc** health & care  
professions  
council



# Questions ?

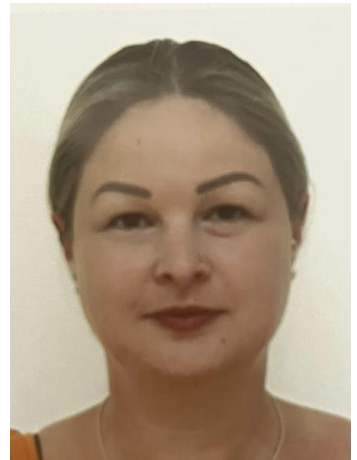


**Morgan Riddiford**

*Medical Lab Assistant, Histology Dept.*

*MTW NHS Trust*

E-mail – [morgan.riddiford@nhs.net](mailto:morgan.riddiford@nhs.net)



**Elizabeth Mills**

*Medical Lab Assistant, Histology Dept.*

*MTW NHS Trust*

E-mail – [elizabeth.mills9@nhs.net](mailto:elizabeth.mills9@nhs.net)