

FBMH Teaching Opportunity: MEDN66111: Laboratory Skills Unit

Closing date: 16 August 2019

Brief description

Students enrolled in a number of taught MSc and MRes programmes within the Faculty of Biology, Medicine and Health come from a variety of scientific disciplines and therefore have different levels of laboratory experience.

The Laboratory Skills unit, MEDN66111, provides theoretical and hands-on experience of techniques used in both the wet and dry laboratory environment. The aim of the unit is to equip students with the theoretical understanding and practical skills relating to laboratory and computer-based biomedical techniques to enable them to undertake experimental research in the biomedical sciences.

Course/Programme of Study:	MEDN66111 Laboratory Skills Unit
Responsible to:	Unit Coordinator, Susan Taylor
Type and Level of Appointee:	8 PDRA teaching opportunities
Key Responsibilities and Resources:	<p>Each PDRA will be required to work directly with up to three small groups of 6/8 students. The PDRA will work under the guidance of the unit coordinator and teaching staff to:</p> <ol style="list-style-type: none">1. Facilitate small group teaching during face-to-face workshop on scientific report writing. This includes how to compile a figure (including figure legends), writing the results and discussion and referencing the relevant scientific literature.2. Provide additional face-to-face support during the report writing period. This will involve general online support via email, monitoring of discussion boards as well as two 60 minute meetings with individual groups (TBC). Successful applicants will be provided with training and will be asked to attend the unit induction session at the start of the unit (mid-late September).3. Support students with their theoretical knowledge and practical skills during the laboratory workshops. The techniques covered in each of the skills workshops are detailed below:<ol style="list-style-type: none">1. Staining techniques: histological staining, immunohistochemistry2. Nucleic acid extraction, amplification and electrophoresis3. Real-time PCR4. Protein handling techniques: Protein extraction/purification and analysis, including SDS-PAGE and Western blotting
Time Commitment/ Hours/ Dates:	<ul style="list-style-type: none">• Up to 5 hours in face-to-face scientific writing workshops (21-25 October 2019)• Up to 2x 5 hours in a laboratory skills workshop (End October –

	<p>end November). NB protein handling skills workshop is split across 2 x 5 hr sessions)</p> <ul style="list-style-type: none"> • Up to 2 hours in small group discussions (Start November – End December) and time to respond online to a discussion boards and emails over the same period (unlikely to be more than one hour in total).
Person Specification incl. Essential Knowledge Skills and Experience:	<p>It would be desirable for you to have theoretical background and practical research experience related to some or all of the following techniques and their applications: manual handling, light/ fluorescent and confocal microscopy, nucleic acid extraction, amplification and electrophoresis, Real-time PCR, SDS-PAGE and Western blotting.</p> <p>In addition applicants should</p> <ul style="list-style-type: none"> • Work well in a team and have the ability to build relationships at all levels • Be responsive to the students' by supporting and encouraging their learning • Have a willingness to undertake the duties described in the role outline • Have some interest in pedagogy of learning, assessment and feedback
Training and Support:	Unit Coordinator
Application Details and Recruitment Process:	<p>Applicants are responsible for ensuring that their line managers agree to this contribution to Undergraduate teaching.</p> <p>Please send informal inquiries to susan.h.taylor@manchester.ac.uk</p>
Deadline for Application:	Friday 16 August 2019