NIHR | Applied Research Collaboration South West Peninsula

HSMA 4 Person Specification

HSMA 4 Students

HSMAs will undertake intensive training in a wide range of mathematical modelling, computer simulation and advanced data science methods, most of which will require the HSMA to develop computer programs in Python. Whilst no prior knowledge of any of these methods or programming is required, HSMAs will need to be comfortable learning and applying such methods, and a strong background in analytics and / or strong computer skills will be required. HSMAs taking forward a project to Phase 2 will also need to manage a project through from design to delivery.

In particular, HSMAs should:

- be comfortable learning a wide range of new mathematical and computing approaches
- be creative in their approach to problem solving
- be comfortable managing a project
- be comfortable liaising with key stakeholders to design a project and obtain the necessary data to support the project
- be able to plan and manage their time efficiently
- have an enthusiasm for / interest in the kinds of approaches taught on the programme
- have strong self-learning skills to engage in the further learning necessary to develop their skills using online resources

Organisational Support

It is vital that HSMAs are fully supported by their organisations in terms of their engagement with the programme. This is not only to ensure that HSMAs are released from their usual work for the minimum periods required for the programme, but also to ensure that the work of the HSMA, and the skills developed as part of the programme, will become integrated into the organisation moving forward.

HSMA 4 Trainee Mentors

Those applying to the Trainee Mentor Scheme are required to attend a virtual meeting on 20th July 2021 10:00-11:30 to discuss their applications. Primarily, we are looking for experienced Operational Research and / or Data Science academics or practitioners, or HSMA alumni, who would be able to mentor a project in Phase 2 of the programme. We will provide training in the specific software used for each approach taught in the programme.