### Academic Foundation Programme Job Description

<table>
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<tr>
<th>Academic Foundation Programme Title</th>
<th>Functional Electrical Stimulation Research National Clinical FES Centre</th>
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<tbody>
<tr>
<td>Employing Trust</td>
<td>Salisbury NHS Foundation Trust</td>
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<tr>
<td>Department</td>
<td>Clinical Science and Biomedical Engineering Department Salisbury District Hospital</td>
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<tr>
<td>Commencement Dates</td>
<td>August, December, or April</td>
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<tr>
<td>Educational Supervisor</td>
<td>Dr Andrew Tanner Email: <a href="mailto:andrew.tanner@salisbury.nhs.uk">andrew.tanner@salisbury.nhs.uk</a> Tel: 01722 336262 x4227</td>
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<tr>
<td>Clinical Supervisor</td>
<td>Professor Ian Swain Email: <a href="mailto:i.swain@salisburyfes.com">i.swain@salisburyfes.com</a> Tel: 01722 336262 x4117</td>
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<td>Administrative Contact</td>
<td>Jacqui Cooper Email: <a href="mailto:jacqueline.cooper@salisbury.nhs.uk">jacqueline.cooper@salisbury.nhs.uk</a> Tel: 01722 336262 x 4492</td>
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<td>Main Educational Opportunities</td>
<td>Academic trainees will meet with their academic supervisor during their F1 year to discuss the specialties and research opportunities available to them and will select a project/specialty in which to conduct his/her academic training. Work within the National Clinical FES Centre in the Department of Clinical Science and Biomedical Engineering and to observe and participate in research activity. This is a leading International Centre for Functional Electrical Stimulation (FES) employing a range of different professions from psychologists to electronic engineers as well as clinical staff and has a number of national and international research programmes going on at any one time. FES is a techniques using electrical impulses, surface and implanted, to restore missing function to people with neurological disabilities as a result of Stroke, Multiple Sclerosis, Spinal Cord Injury, Parkinson’s Disease and Cerebral Palsy. Patients are referred from all over the UK with problems due to damage to the Central Nervous System and by using FES we can often see an immediate improvement in function. The post holder will have first hand experience of a wide range of neurological conditions during the placement. For more information please visit the commercial arm of the National Clinical FES Centre at <a href="http://www.odstockmedical.com">www.odstockmedical.com</a></td>
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- Involvement in research work related to restoring function after neurological illness or injury
- Attend FES clinics (2 or 3 per week) and receive the necessary training to become a competent FES practitioner
- Attend other clinics within the department including Neurophysiology, Orthotics, Specialist seating and postural management, Gait Analysis
- Develop skills in assessing patients with a wide range of neurological conditions needing assessment for possible FES treatment
- Participation in FES training courses
- A generic course to teach Research methodologies (in Southampton)
- Attend the departmental clinical governance meetings and research seminars.
- Present results of any relevant research at appropriate meetings.

Rotation could be linked to relevant clinical specialties (Stroke Medicine, Plastic surgery).

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<th>Formal Teaching Programmes</th>
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<tr>
<td>- Weekly Departmental Meetings</td>
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<tr>
<td>- Monthly Research Meetings</td>
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<tr>
<td>- Generic Research Methodology Teaching</td>
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<td>- Weekly Hospital Grand Round</td>
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<tr>
<td>- FES Courses (Basic, advanced and Upper limb courses)</td>
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Generic research skills training provided by the R&D Support Unit and the Wellcome Trust Clinical Research Facility, at Southampton General Hospital (10 half day sessions). This course will enable F2 trainees:

- To gain an overview of the scope of clinical research
- To learn about research methods and their appropriate application
- To learn about sources of knowledge and knowledge management
• To learn how to form research questions
• To learn how to critically appraise research
• To master elementary statistics and understand their application to research
• To understand the sources of funding for research and financial management of research
• To understand the ethics of research, consent and confidentiality and what is required for ethics applications.
• To understand how research is regulated and governed.

Between sessions participants will be expected to develop their own research projects involving the:
• Generation of research questions
• Design of research protocols
• Financial aspects of research
• Navigation through ethics and the regulation of research.

ANTICIPATED OUTCOMES

The Foundation Doctor should have:

• Developed ‘hands on’ experience of research activity
• Gained experience of clinical trial design and research governance
• Presented relevant findings at appropriate meetings
• Presented a critical review to the research group and if possible to have contributed to a scientific journal publication.
• Developed an understanding of the Ethical application and review process
• Developed an understanding of the sources of funding for research activity
• Developed some elementary skills in statistical analysis
• Gained Clinical experience in a rapidly developing and innovative field working as part of a diverse multidisciplinary team.
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# PROPOSED TIMETABLE

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<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td><strong>a.m.</strong></td>
<td>Research Planning</td>
<td>Research Time</td>
<td>Clinic</td>
<td>Research Time</td>
<td>Clinic</td>
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<tr>
<td><strong>p.m.</strong></td>
<td>Study Time</td>
<td>Core Clinical Teaching</td>
<td>Clinic</td>
<td>Research Time</td>
<td>Educational Supervision</td>
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Please contact Dr Andrew Tanner or Professor Ian Swain for more information
E-mail: i.swain@salisburyfes.com or andrew.tanner@salisbury.nhs.uk