# Academic Foundation Programme Job Description

<table>
<thead>
<tr>
<th>Academic Foundation Programme Title</th>
<th>Clinical Science and Biomedical Engineering</th>
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<tr>
<td>Employing Trust</td>
<td>University Hospitals Southampton NHS Foundation Trust</td>
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<tr>
<td>Department</td>
<td>Clinical Science and Biomedical Engineering, Salisbury District Hospital</td>
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<tr>
<td>Commencement Dates</td>
<td>August, December, or April</td>
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| Educational Supervisor              | Name: Dr Andrew Tanner  
Email: andrew.tanner@salisbury.nhs.uk  
Tel: 01722 336262 x4227 |
| Clinical Supervisor                 | Name: Professor Iain Swain  
Email: iain.swain@salisbury.nhs.uk  
Tel: 01722 336262 x4117 |
| Administrative Contact              | Name: Ms Helen Whatley  
Email: helen.whatley@salisbury.nhs.uk  
Tel: 01722 336262 x4492 |
| Main Educational Opportunities:     | Work within the Biomedical Engineering Department to observe and participate in research activity. This is a leading International Centre for Functional Electrical Stimulation (FES).  
- Access to research work related to restoring function after neurological illness or injury  
- Exposure to research activity related to wound healing  
- Attend FES clinics (2 or 3 per week)  
- 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 Academic Bio-engineering Research Group meetings  
- Present results of any relevant research at appropriate meetings  
Rotation will be linked to relevant clinical specialties (Stroke Medicine, Plastics). |
| Formal Teaching Programmes          | Weekly Departmental Meetings  
Monthly Research Meetings  
Generic Research Methodology Teaching  
Weekly Hospital Grand Round  
FES Course (Basic, advanced and Upper limb courses) |
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
- 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 research governance
- Presented relevant findings at appropriate meetings
- Presented a critical review to the research group
- Developed an understanding of the Ethical 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
PROPOSED TIMETABLE

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<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tbody>
<tr>
<td>a.m</td>
<td>Research Planning</td>
<td>Research Time</td>
<td>Clinic</td>
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<td>p.m</td>
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<td>Core Clinical</td>
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<td></td>
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<td>Teaching</td>
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Please contact Dr A R Tanner or Professor Iain Swain for more information
E-mail: iain.swain@salisbury.nhs.uk