# Academic Foundation Programme Job Description

<table>
<thead>
<tr>
<th>Academic Foundation Programme Title</th>
<th><strong>Clinical Science and Biomedical Engineering</strong></th>
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<tbody>
<tr>
<td><strong>Employing Trust</strong></td>
<td>University Hospitals Southampton NHS Foundation Trust</td>
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<td><strong>Department</strong></td>
<td>Clinical Science and Biomedical Engineering Salisbury District Hospital</td>
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<tr>
<td><strong>Commencement Dates</strong></td>
<td>August, December, or April</td>
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</table>
| **Educational Supervisor**          | Dr Andrew Tanner  
Email: [andrew.tanner@salisbury.nhs.uk](mailto:andrew.tanner@salisbury.nhs.uk)  
Tel: 01722 336262 x4227 |
| **Clinical Supervisor**             | Professor Iain Swain  
Email: [iain.swain@salisbury.nhs.uk](mailto:iain.swain@salisbury.nhs.uk)  
Tel: 01722 336262 x4117 |
| **Administrative Contact**          | Ms Helen Whatley  
Email: [helen.whatley@salisbury.nhs.uk](mailto: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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<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>a.m.</td>
<td>Research Planning</td>
<td>Research Time</td>
<td>Clinic</td>
<td>Research Time</td>
<td>Clinic</td>
</tr>
<tr>
<td>p.m.</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 A R Tanner or Professor Iain Swain for more information
E-mail: iain.swain@salisbury.nhs.uk