Job Description for Academic Foundation Programme

CLINICAL SCIENCE & BIOMEDICAL ENGINEERING

Host Trust
SALISBURY DISTRICT HOSPITAL NHS FOUNDATION TRUST

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>Clinical Science and Biomedical Engineering Salisbury District Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMENCEMENT DATES</td>
<td>August, December or April</td>
</tr>
<tr>
<td>EDUCATIONAL SUPERVISOR</td>
<td>Dr Andrew Tanner. 01722 336262 x4227 E-mail: <a href="mailto:andrew.tanner@salisbury.nhs.uk">andrew.tanner@salisbury.nhs.uk</a></td>
</tr>
<tr>
<td>CLINICAL SUPERVISOR</td>
<td>Professor Ian Swain. 01722 336262 x4117 E-mail: <a href="mailto:iain.swain@salisbury.nhs.uk">iain.swain@salisbury.nhs.uk</a></td>
</tr>
<tr>
<td>ADMINISTRATIVE CONTACT</td>
<td>Ms Helen Whatley. 01722 336262 x4492 E-mail: <a href="mailto:helen.whatley@salisbury.nhs.uk">helen.whatley@salisbury.nhs.uk</a></td>
</tr>
</tbody>
</table>

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.
- Possible placement in Spinal Medicine.
- A generic course to teach Research methodologies.
- 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 x 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

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A m</strong></td>
<td>Spinal Med Round</td>
<td>Research time</td>
<td>Clinic</td>
<td>Research time</td>
<td>Educational supervision</td>
</tr>
<tr>
<td><strong>P m</strong></td>
<td>Study Time</td>
<td>Core Clinical Teaching</td>
<td>Clinic</td>
<td>Research time</td>
<td>Clinic</td>
</tr>
</tbody>
</table>

Please contact Dr A R Tanner or Professor Ian Swain for more information
E-mail: iain.swain@salisbury.nhs.uk