# Job Description for Academic Foundation Programme

## NEUROSURGERY

### Host Trust

**SOUTHAMPTON UNIVERSITY HOSPITALS NHS TRUST**

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>Neurosurgery (Division of Clinical Neurosciences) - Southampton</th>
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<tbody>
<tr>
<td>COMMENCEMENT DATES</td>
<td>August, December, or April</td>
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</table>
| EDUCATIONAL SUPERVISOR NAME: | Professor William Gray  
Email: [w.p.gray@soton.ac.uk](mailto:w.p.gray@soton.ac.uk)  
Tel: 023 8079 4271 |
| CLINICAL SUPERVISOR NAME: | Mr A Sepahi / Mr Nicolas Brooke / Mr Tony Belli  
Email: [a.belli@soton.ac.uk](mailto:a.belli@soton.ac.uk) |
| ADMINISTRATIVE CONTACT NAME: | Mrs. I Patel  
Email: cnsadmin@soton.ac.uk  
Tel: 023 80 794271 for Clinical Neurosciences and Divisional information  
Mrs H Johns  
Email: [heather.johns@suht.swest.nhs.uk](mailto:heather.johns@suht.swest.nhs.uk)  
Tel: 02380 796057 for Neurosurgery information |
| MAIN EDUCATIONAL OPPORTUNITIES | Clinical Neurosurgery |
| | • **General Neurosurgery:**  
Experience of management of the complete range of elective and emergency neurosurgical conditions. Regular on-call for emergency admissions – assessment and acute management. |
| | • **Elective Neurosurgery:**  
- **Research Experience (Laboratory or Clinical):**
  Wide range of opportunities in clinical and translational laboratory based research within the Clinical Neurosciences Research Laboratories. Care of patients involved in clinical trials. Direct involvement in research activities: writing a clinical research protocol. GCP and Research Governance issues. Participation in an established ongoing research project is expected. Writing up results for publication.

  Clinical research projects: design, set-up (COREC, R&D, Peer review), training in ICH-GCP.

  Laboratory research projects within existing laboratory programmes in Clinical Neurosciences Labs on-site: Dissociated monolayer and 3D cell and Organotypic culture projects on stem cells, and hypoxic / ischaemic, epileptic and traumatic brain injury and brain repair.

  Exposure to the extensive evidence base in neurosciences, with the opportunity to undertake systematic reviews for specific topics.

- **Attendance at weekly postgraduate meetings in neurosurgery and neurosciences.**
<table>
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<tr>
<th>FORMAL TEACHING PROGRAMMES</th>
<th>Neurosurgery:</th>
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<tbody>
<tr>
<td></td>
<td>• Weekly neurosurgical topic teaching and audit</td>
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<tr>
<td></td>
<td>• Weekly MDTs in epilepsy surgery, spinal surgery, neurooncology and skull base surgery.</td>
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<td></td>
<td>• Monthly multidisciplinary Morbidity Mortality Meetings and journal club meetings</td>
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<td></td>
<td>• Weekly teaching ward round</td>
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<td></td>
<td>• Regular research meetings</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
- 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

**Academic competencies**

Formal assessment at the end of the placement will determine competency in:

- Literature reviewing and critical appraisal
- Research study design and planning
Wessex Foundation School

Wessex Deanery is part of the South Central Strategic Health Authority and provides postgraduate medical and dental education for Hampshire, Isle of Wight, and the States of Jersey, and for Dorset and South Wiltshire on behalf of the South West Strategic Health Authority.

- Data interpretation and presentation of results
- Research governance, good clinical practice, and ethics

TIMETABLE

This will be flexible according to the lab meetings and MDT meetings to be attended. The following are proposed examples.

An example of the potential neurosurgery training timetable is provided below:

<table>
<thead>
<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>a.m</td>
<td>Research</td>
<td>Ward Round</td>
<td>Theatre</td>
<td>Research</td>
<td>Research</td>
</tr>
<tr>
<td></td>
<td>Time</td>
<td>MDT Meeting</td>
<td></td>
<td>Time</td>
<td>Time</td>
</tr>
<tr>
<td>p.m</td>
<td>Ward work</td>
<td>Clinical</td>
<td>O/P Clinic</td>
<td>Research</td>
<td>1/2 day Neurosciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Teaching</td>
<td></td>
<td>Time</td>
<td>academic programme</td>
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OUT OF HOURS / ON CALL:

<table>
<thead>
<tr>
<th>Hours Worked</th>
<th>Work Pattern:</th>
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<tr>
<td></td>
<td>To be part of the established SHO rotas</td>
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Planned Changes

- Could occur based on experience of F2 cohort in 2009-10 after discussion with supervisors and trainees.
- Potential for extension of laboratory research projects offered to other groupings within the Division.

Funding source

- Academic F2.

For further details of opportunities for research in the Division of Clinical Neurosciences see website at: [http://www.som.soton.ac.uk/research/neuro](http://www.som.soton.ac.uk/research/neuro)