

### Job Description

<b>Job Title:</b>	Research Associate
<b>Department:</b>	Department of Life Sciences
<b>Faculty:</b>	Faculty of Natural Sciences
<b>Job Family/Level:</b>	Academic and Research, Level B (Maximum starting salary: £35,640 per annum)
<b>Salary Range:</b>	£33,860- £42,830 per annum
<b>Reporting to:</b>	Dr Doryen Bubeck
<b>Key Working Relationships (internal):</b>	Other research staff and students within the Centre for Structural Biology and the Membrane Biophysics Group.
<b>Working Hours:</b>	Not normally less than 35 hours per week
<b>Location:</b>	South Kensington Campus
<b>Duration:</b>	Up to 45 months

### The Purpose of the Post

This post is funded for up to up to 45 months by a Cancer Research UK Career Establishment Award to Doryen Bubeck. The project involves structural and functional characterization of protein complexes involved in the complement terminal pathway. The successful candidate will join a multi-disciplinary group to investigate the structure and function of the complement membrane attack complex. You will be responsible for carrying out structural studies of key complexes in the complement terminal pathway.

### Key Responsibilities

- To plan, execute and analyse experiments.
- To maintain an up-to-date detailed knowledge of relevant and recent research literature.
- To maintain accurate and complete records of all findings.
- To ensure the validity and reliability of data at all times.
- To prepare and present findings to colleagues at seminars and lab meetings.
- Prepare and present findings to other researchers through scientific publications and conferences.
- To train and supervise students or other members of the laboratories or collaborators
- To prioritise tasks within agreed work schedule.
- To maintain accurate and complete records of all findings.
- To assist in the writing of regular internal reports as necessary.
- To write regular (monthly) internal reports.
- To write reports for submission to research sponsors.
- To draft publications and prepare them for submission to refereed journals.
- To submit publications to refereed journals.
- To contribute to writing bids for research grants.
- To provide guidance to staff and students.
- To take responsibility for organising resources and effective decision making in support of research.

- To attend relevant workshops and conferences as necessary.
- To develop contacts and research collaborations within the College and the wider community.
- To promote the reputation of the Group, the Department and the College.

### **Additional Duties**

- To be actively involved in related research and scholarly activities essential for the project as a whole.
- To be responsible for the general good practice of the laboratory and to carry out necessary tasks related to that (in agreement with supervisors).
- To undertake appropriate administration tasks.
- To undertake limited teaching duties as required by the Department.
- To undertake any necessary training and/or development.
- To observe and comply with all College policies and regulations, including the key policies and procedures on Confidentiality, Conflict of Interest, Data Protection, Equal Opportunities, Ethics related, External Interests, Financial Regulations, Health and Safety, Imperial Expectations (for new leaders, managers and supervisors), Information Technology, and Smoking.
- To undertake specific safety responsibilities relevant to individual roles, as set out on the College Health and Safety Structure and Responsibilities web page: <http://www3.imperial.ac.uk/safety/policies/organisationandarrangements>
- Any other duties commensurate with the grade of the post as directed by line manager / supervisor.
- To undertake [Business Continuity responsibilities](#) relevant to individual roles.

***Job descriptions cannot be exhaustive and the postholder may be required to undertake other duties, which are broadly in line with the above key responsibilities.***

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## Person Specification

**Job Title:** Postdoctoral Research Associate

**Department:** Department of Life Sciences

### Qualifications

- A PhD (or equivalent) in a structural biology or biochemistry discipline.

### Experience/Knowledge

#### *Essential*

- Research experience in a structural biological laboratory environment covering either:
  - X-ray crystallography and/or Electron microscopy single particle analysis, or
  - Advanced knowledge in protein biochemistry and structural biology
- Demonstrate the capacity for innovative high quality structural biological research

#### *Desirable*

- Knowledge of macromolecular assemblies
- Experience in reconstituting large multi-protein complexes in lipid membranes
- Experience in supervision and training of junior research staff and students
- Experience in writing scientific research papers

### Skills/Abilities

- Excellent organisation skills
- Excellent attention to detail
- High levels of initiative and the ability to be innovative
- Excellent problem solving skills
- Ability to rapidly learn new research methods
- Ability to undertake day-to-day supervision and training of other research team members
- Ability to conduct detailed reviews of research literature
- Ability to develop and apply new concepts
- Excellent verbal communication skills and the ability to deal with a wide range of people
- Excellent written communication skills and the ability to write clearly and succinctly for publication
- Ability to organise own work with minimal supervision
- Ability to meet deadlines and research objectives
- Advanced computer skills, especially electron microscopy image processing packages

### In addition the Research Associate should be able to demonstrate:

- High level of analytical capability.
- Ability to communicate complex information clearly.
- Ability to apply relevant models, techniques and methods and develop new ones.
- Ability to assess resource requirements and deploy them effectively.
- Ability to encourage research culture in others.

### Personal Attributes

- Willingness to work as member of a team and to be open-minded and cooperative
- Commitment to meeting deadlines.
- Commitment to maintaining and enhancing facilities and training others in their use
- Flexible attitude towards work
- Willingness to undertake any necessary training for the role

- Willingness to travel both within the United Kingdom and abroad to conduct research and attend conferences/workshops and other meetings