

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
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NAME George, Simon J.		POSITION TITLE Project Scientist	
eRA COMMONS USER NAME (credential, e.g., agency login) simonjgeorge			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
King's College, University of London	BSc (Hons)	09/82	Chemistry
University of East Anglia	PhD	12/86	Chemistry/Spectroscopy
University of East Anglia	PostDoc	09/88	Chemistry/Spectroscopy

A Personal Statement

My research focuses on the function of transition metals and lanthanides in biological systems and I study these using the techniques of IR spectroscopy and X-ray absorption spectroscopy. Examples of my current projects include: the interaction of small molecules, (N₂, H₂, O₂, CO and NO) with Fe enzymes and proteins; the maturation of complex metal cofactors including FeMo-co in nitrogenase and the H-cluster of hydrogenase; and the chemistry of lanthanide deposition in human tissue. I am a leading expert in the application of IR spectroscopy to biological systems. At the John Innes Centre, I developed the technique of stopped-flow infrared spectroscopy and applied it to metals in biological systems, including nitrogenase, hydrogenase and NO enzymes. After I moved to the US, I brought this instrument with me and it is currently installed at Lawrence Berkeley National Lab. I am also an experienced X-ray and EPR spectroscopist with over half my publications involving these techniques. My publication record documents my productivity and my ability to successfully support a scientific program.

B. Positions and Honors**Positions and Employment**

1986-1988 SERC Post-Doctoral Fellow, Prof. Andrew Thomson, University of East Anglia, Norwich, UK.
 1988-1991 Staff Research Chemist, University of East Anglia, Norwich, UK
 1990-1991 Visiting Scientist, National Synchrotron Light Source, Brookhaven National Lab., Upton NY.
 1991-1993 Assistant Researcher, Department of Applied Science, University of California, Davis, CA.
 1994-2003 Senior Scientist, John Innes Centre, Norwich UK.
 1999-2006 Honorary Faculty, University of East Anglia, Norwich, UK.
 2003-2009 Staff Scientist, Lawrence Berkeley National Lab, Berkeley, CA.
 2010- Project Scientist, Department of Chemistry (2010 – 2011: Department of Applied Science), University of California, Davis, CA.

Professional Memberships

1987- Member, Inorganic Discussion Group, Royal Society of Chemistry
 2000- Member, Society for Biological Inorganic Chemistry
 2003- Member, American Chemical Society

C. Peer-reviewed Publications

Please see attached