

**INDUSTRY CLASSIFICATION**

HE - Higher Education

**AGE AT INTERVIEW**

33

**ELECTION OR TRANSFER TO:**

Member

**FIRST DEGREE**

2:1 Hons. from University of Nottingham in Mech. Eng., 1990

**SUBSEQUENT DEGREES AND OTHER QUALIFICATIONS** – PhD, Univ. of Nottingham, 1999**EXPERIENCE PRIOR TO PRESENT POSITION**

IMI plc, 1990-1995 – Project Engineer

Nottingham Trent University, 1995-1996 – Teacher Training Course

University of Nottingham, 1996-1999 – PhD student in collaboration with Blue Circle Cement

University of Nottingham, 1999-2000 – Associate Lecturer in Mechanical Engineering

**PRESENT POSITION**

University of Nottingham, 2000-present – Research Associate. Work currently involves the physical and mathematical modelling of a power station p.f. pipework system, to study conditions leading to the phenomenon of “roping” which causes maldistribution of the fuel at downstream splitters and internal erosion of the pipework.

<b><u>STAFF REPORTING -</u></b>	<b><u>PROFESSIONAL</u></b>	0
	<b><u>TECHNICAL</u></b>	0
	<b><u>MANUAL</u></b>	0
	<b><u>OTHER</u></b>	0

**INTERVIEWERS' COMMENTS****A Demonstrate knowledge and understanding of engineering principles**

Key elements of competence	Examples of meeting A
maintains a sound theoretical approach to technology applies a creative approach to problem solving introduction/exploitation of emerging technologies promotes innovation and advances in technology	Numerical modelling of tyre chip flow in cement plant

**B Demonstrate practical application of engineering knowledge and expertise**

Key elements of competence	Examples of meeting B
takes initiative to identify potential projects and opportunities participates in or specifies research, design and development plans and implements solutions evaluates solutions identifies what has been learnt from the activity	Developed metering technique Improved venturi design Laser measurement of roping in p.f. pipework PhD studies

**C Leadership and management**

Key elements of competence	Examples of meeting C
<p>experience of effective project planning and implementation</p> <p>manages and plans budgets, tasks, people and/or other resources</p> <p>ensures team members have appropriate skills</p> <p>contribution to continuous improvement via quality management</p>	<p>Planning engineering experience at IMI and Norgren</p> <p>Responsible for assembly scheduling</p> <p>Minor budgetary responsibilities so far</p>

**D Communication and inter-personal skills**

Key elements of competence	Examples of meeting D
<p>demonstrates oral communication skills</p> <p>displays written communication skills</p> <p>has the ability to present and discuss ideas and plans</p> <p>ability in team building and negotiating activities</p>	<p>Speaks very well, presents a confident view of his work ability.</p> <p>Various IMechE and other papers</p> <p>Very keen on innovative aspects of his work</p>

**E Professional conduct**

Key elements of competence	Examples of meeting E
<p>compliance with codes and rules of conduct of the profession</p> <p>application and management of safe systems of work</p> <p>familiar with relevant legislation especially health, safety, risk and the environment</p> <p>displays a commitment to undertake continuing professional development, including a personal Development Action Plan</p> <p>demonstrates involvement with the IMechE, other professional engineering Institutions, schools, colleges or local other community activities</p>	<p>Took initiative in resolving H &amp; S problems on test rig</p> <p>Fume extraction filters on p.f. test rig</p> <p>Personal Development Action Plan produced at interview</p> <p>Has visited schools but not deeply involved at present</p>

**COMPETENCES AWARDED**

A	B	C	D	E
4	4	2	4	3
4	3	2	3	3

**PANEL RECOMMENDATION**

Transfer to Member

**MEMBERSHIP COMMITTEE DECISION**

Transfer to Member