



APPENDIX I

Commercial Nanomaterial Manufacture in the UK ⁴⁹

COMPANY	LOCATION	ACTIVITY	DESCRIPTION
QinetiQ Nanomaterials Ltd http://www.qinetiq.com/home_nano.html	QinetiQ Nanomaterials Ltd Y25 Bldg Cody Technology Park lvely Road Farnborough Hants GU14 0LX	Bulk Manufacture	Subsidiary of QinetiQ Ltd, the recently privatised wing of the Ministry of Defence research agency. Bulk manufacturers of a wide range of nanomaterials using Tesima manufacturing technology developed by Tetronics.
Thomas Swan & Co Ltd www.thomas-swan.co.uk	Thomas Swan & Co Ltd Crookhal Consett County Durham DH8 7ND	Bulk Manufacture	Speciality chemicals company, moving into nanotechnology. Collaboration with Cambridge University has enabled Thomas Swan & Co to become the UK's first commercial manufacturer of carbon nanotubes under the trade name 'Elicarb'
Oxonica www.oxonica.com	Oxonica Ltd Unit 7 Begbroke Science and Business Park Sandy Lane, Yarnton Kidlington Oxfordshire OX5 1PF	Design, prototyping and small scale manufacture	Initially set up as spin out company from Oxford University and was the first UK purely nanotech company to be listed on the stock exchange. Oxonica have four business areas: Energy, Healthcare, Materials and Security. Commercial products include Optisol U/V filter and Envirox fuel additive. In late 2005 Oxonica acquired US health care and security nanotech company Nanoplex.
AMR Technologies http://www.amr-ltd.com	AMR Nanotechnology Centre AMR (Europe) Ltd 3, The Quadrant Abingdon Science Park Barton Lane Abingdon, Oxfordshire OX14 3YS	Design, prototyping and small scale manufacture	AMR is a global materials company. Their Global nanotechnology research centre is based in Abingdon, Oxfordshire.
Tetronics Ltd http://www.tetronics.com	Tetronics Limited Ram Court Wicklesham Farm Faringdon, Oxon SN7 7PN	Design, prototyping and small scale manufacture	Oxfordshire-based materials and processes company. Working on the bulk manufacture of nano particles with QinetiQ Nanomaterials Ltd.
NanoMagnetics Ltd http://www.nanomagnetics.com	NanoMagnetics Ltd 108 Longmead Road Emerald Park East Emersons Green Bristol BS16 7FG	Design, prototyping and small scale manufacture	Bristol-based nanoparticle company. Designing nanoparticles with magnetic properties for use in water purification, computer memory and medical imaging.

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Metal Nanopowders Ltd http://www.metalnanopowders.com	Department of Metallurgy and Materials University of Birmingham Edgbaston, Birmingham B15 2TT	Design, prototyping and small scale manufacture	Spin off company from the University of Birmingham. Produces small quantities of nanoparticles.
Nanoco http://www.nanoco.biz	Nanoco 48 Grafton Street Manchester, M13 9XX	Design, prototyping and small scale manufacture	Spin-off company from the University of Manchester. Produces small quantities of 'Quantum Dot' nano particle tags
Dupont Airproducts LLC http://www.nanoslurry.com	Ruabon Works Cefn Mawr Wrexham LL14 3SL	Bulk manufacture	Joint venture between global chemicals giant DuPont and chemicals and gases company Airproducts. Ruabon Works produces nanoparticles for inclusion in 'Nanoslurry' polishing agents for use in the electronics industry.
Liquids Research http://www.liquidsresearch.co.uk	Mentec Deiniol Road Bangor, Gwynedd, Wales, LL57 2UP	Design, prototyping and small scale manufacture	Small company manufacturing nanoparticle-based magnetic fluids.
ICI/Uniqema http://www.uniqema.com	ICI PLC 20 Manchester Square London W1 3AN Uniqema Wilton Middlesbrough Cleveland TS90 8JE	Bulk Manufacture	Speciality chemicals company Uniqema is a subsidiary of ICI. Manufactures Solaveil sunscreen active ingredient based on nanoparticle titanium dioxide.
Nanotecture Ltd http://www.nanotecture.co.uk	Nanotecture Ltd Epsilon House Enterprise Road Southampton Science Park Southampton SO16 7NS	Design, prototyping and small scale manufacture	Spin out from Southampton University making nanomaterials for batteries and electrical components.