



## Job Description

<b>Job Title:</b>	Research & Development Scientist	<b>Reference:</b>	RDS/133811
<b>Department:</b>	Research & Development	<b>Reporting to:</b>	R&D Manager
<b>Location:</b>	Springtown	<b>Date:</b>	June 2013

### Job Summary:

Working within the R&D department, the successful candidate will be responsible for research and development in the areas of transducer design and thin-film wafer processing for the manufacture of future generations of thin film magnetic recording heads. The position will involve applying and extending the latest understanding of device physics and microfabrication technology to meet the challenges of this fast moving environment.

### Key Responsibilities may include:

- Development of new designs, materials and device structures
- Application and development of material and process analysis and monitoring metrology
- Identification and deployment of advanced technologies and designs for magnetic read/write heads
- Manage the execution of new head/media designs into drive
- Analyzing electrical test data obtained from these prototypes and providing feedback and design learning to the team
- Application and development of electrical test strategies and methods
- Negotiating and communicating product specifications with the customer
- Partnering with Mechanical R&D and RMO to improve head performance and reliability to meet Drive Centre requirements

### Main Tasks

- Direct use of wafer processing, metrology and test equipment
- Modelling and simulation of process technology
- Design / implementation of product experiments to meet yield improvement plans
- Determine and track required head performance, reliability requirements and gaps for program
- Working with process and integration teams to define head design specifications and communicating wafer quality to downstream customers
- Tracking, recovery and analysis of downstream test data, and providing design and process feedback to the relevant teams
- Design and implementation of experiments to optimise new and existing materials and processes.
- Tracking, recovery and analysis of wafer and downstream test data.
- Co-ordination of project activities to ensure that new projects are delivered on time
- Project planning and communication of project status on a regular basis
- Remaining informed of state-of-the-art thin film magnetics and manufacturing technology
- Monitoring, creation and management of intellectual property
- Working with academic partners to leverage the potential of applicable research.
- Ensure compliance with Health & Safety procedures.

The above statements reflect the general tasks, duties, activities and/or responsibilities necessary to describe this position and is not intended to set forth all of the specific requirements of the job. These job duties/responsibilities may change or vary in response to business needs.