

# M&P OCCUPATIONAL GUIDELINE

## JOB FAMILY: SCIENTIFIC ENGINEERING Level B, Pay Grade 8

<b>LEVEL DEFINITION</b>	This level covers positions that contribute to the coordination of experimental and analytical investigations related to engineering design and equipment. May design, construct, install and maintain scientific research equipment of a complex and technical nature.
<b>TYPICAL RESPONSIBILITIES</b>	May include: designing analytical models and computer programs for compiling data; developing algorithms and pattern recognition methods; completing complex design calculations related to experimental work; assessing design alternatives; applying teaching techniques to effect improvements in laboratory courses; conducting experiments, collating and analysing data; detailing designs and specifications for experimental equipment; construction, assembly and calibration, modification, maintenance and repair of equipment; providing technical assistance and advice to faculty and students.
<b>DECISION MAKING /LEVEL OF ACCOUNTABILITY</b>	Governed by the general guidelines of the profession makes technical decisions and recommendations on all aspects of the work.
<b>SUPERVISION RECEIVED</b>	Works independently within project objectives. Informed technical guidance is available.
<b>SUPERVISION EXERCISED</b>	May provide guidance and direction to technical staff in carrying out experiments or constructing equipment.
<b>MINIMUM QUALIFICATIONS</b>	Undergraduate degree in Engineering or Applied Science. Minimum of three years of related experience, or the equivalent combination of education and experience.