LEVEL DEFINITION | 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.

TYPICAL RESPONSIBILITIES | 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.

DECISION MAKING / LEVEL OF ACCOUNTABILITY | Governed by the general guidelines of the profession makes technical decisions and recommendations on all aspects of the work.

SUPERVISION RECEIVED | Works independently within project objectives. Informed technical guidance is available.

SUPERVISION EXERCISED | May provide guidance and direction to technical staff in carrying out experiments or constructing equipment.

MINIMUM QUALIFICATIONS | Undergraduate degree in Engineering or Applied Science. Minimum of three years of related experience, or the equivalent combination of education and experience.