

Position Description

January 2023

This Position Description is a guide and will vary from time to time and between services and/or units to meet changing service needs

Te Whatu Ora Health New Zealand (HNZ) - Waitaha Canterbury is committed to the principles of the Treaty of Waitangi and the overarching objectives of the New Zealand health and disability strategies.

Organisational Vision

The Te Whatu Ora HNZ - Waitaha Canterbury vision is to improve the health and well-being of the people living in Canterbury.

Organisational Values

- Care & respect for others
- Integrity in all we do
- Responsibility for outcomes

POSITION TITLE:

BIOMEDICAL ENGINEER

REPORTS TO (Title):

TEAM LEADER OF BIOENGINEERING,
MEDICAL PHYSICS & BIOENGINEERING

REPORTS ON A DAILY BASIS TO:

PRINCIPAL OBJECTIVES

To broadly apply scientific expertise in the application of physics and engineering in health care.

To assist in research, design, construction and maintenance of special medical and scientific instruments and devices for clinical departments within Te Whatu Ora HNZ.

FUNCTIONAL RELATIONSHIPS:

(Who are the customer/consumers/patients)

INTERNALLY:

- | | |
|---|---|
| 1 | Staff of the Department of Medical Physics & Bioengineering |
| 2 | Clinical staff |
| 3 | Staff of other Te Whatu Ora HNZ services |
| 4 | |

EXTERNALLY:

- | | |
|---|-----------------------------------|
| 1 | University of Otago, Christchurch |
| 2 | University of Canterbury |
| 3 | Manufacturing companies |
| 4 | Suppliers |

KEY PERFORMANCE OBJECTIVES:

Task	Clinical research and development
Expected Result	<ul style="list-style-type: none">a) Research links are fostered with clinical and university staffb) Applied research relevant to Te Whatu Ora HNZ goals is initiated and contributes to improved clinical carec) Advanced application of engineering skills to the healthcare setting
Task	Developing specialised clinical and scientific equipment, and clinical protocols
Expected Result	<ul style="list-style-type: none">a) Provide professional leadership within the Bioengineering teamb) To develop and maintain a comprehensive knowledge of current techniques for the development of clinical equipment.c) To develop equipment and protocols that accurately and efficiently meet clinical requirements.d) To encourage ongoing liaisons with clinical staff in order that needs can be accurately assessed.
Task	Advising on appropriate clinical technology and its application
Expected Result	<ul style="list-style-type: none">a) To develop and maintain an in-depth knowledge of equipment trends and regulations.b) To assist with the specification, selection and application of new clinical equipment.
Task	Participate in the development and use of the Quality Management System.
Expected Result	<ul style="list-style-type: none">a) To develop and maintain a knowledge of quality management principles and standards (eg ISO 9000 series)b) To take an active role in the development and implementation of departmental quality policy and procedures.c) To adhere to quality policy once developed.
Task	Performing administrative duties required for the efficient running of the department
Expected Result	<ul style="list-style-type: none">a) To develop and maintain a knowledge of departmental procedures.b) To participate in section and department meetings as appropriate.c) To accurately record and report the apportionment of time to various activities.
Task	Undertake other duties as reasonably directed by the Team Leader, Bioengineering from time to time
Expected Result	<ul style="list-style-type: none">a) To ensure all duties required to be performed are done so in the best interests of the service in a competent and effective manner.

HEALTH & SAFETY:

- Observe all Te Whatu Ora HNZ safe work procedures and instructions
- Ensure your own safety and that of others
- Report any hazards or potential hazard immediately
- Use all protective equipment and wear protective clothing provided
- Make unsafe work situations safe or, if they cannot, inform your supervisor or manager
- Co-operate with the monitoring of workplace hazards and employees health
- Ensure that all accidents or incidents are promptly reported to your manager
- Report early any pain or discomfort
- Take an active role in the Te Whatu Ora HNZ rehabilitation plan, to ensure an early and durable return to work
- Seek advice from your manager if you are unsure of any work practice

QUALITY:

Every staff member within Te Whatu Ora HNZ is responsible for ensuring a quality service is provided in there area of expertise. All staff are to be involved in quality activities and should identify areas of improvement. All staff are to be familiar with and apply the appropriate organisational and divisional policies and procedures.

QUALIFICATIONS & EXPERIENCE:

Essential

- to have excellent written and oral communication skills
- be experienced in a broad range of relevant research, design, and development
- have demonstrable ability to independently lead projects from inception to completion in a safety critical environment.
- have a relevant advanced tertiary qualification in biomedical, mechanical or mechatronics engineering.

Desirable

- be familiar with medical equipment, processes and terminology
- eligible for professional membership of ACPSEM, IPENZ, IEAust, IPEM or similar

PERSONAL ATTRIBUTES:

MANDATORY

Key Behaviours:

- Ability to “work together” in a truthful and helpful manner.
- Ability to “work smarter” by being innovative and proactive.
- Accepts responsibility for actions.

DESIRABLE

- be self-motivated and able to carry through to completion development projects that may span several months
- be able to work as part of a multi-disciplinary team and with clinical staff, other engineers and technicians
- have good organisational and time keeping skills
- have good communications skills
- have a positive and co-operative attitude towards clinical staff
- be able to perform under occasional periods of pressure
- be available to work outside normal hours if infrequently required
- have good health with good eyesight and manual dexterity
- be prepared to learn and develop and attend relevant training courses as necessary

The intent of this position description is to provide a representative summary of the major duties and responsibilities performed by staff in this job classification. Staff members may be requested to perform job related tasks other than those specified.