



POSITION DESCRIPTION

Position Title:	Senior Chemical Engineer
Cluster / Business Unit / Division	ANSTO Maintenance and Engineering
Section or Unit:	Process Engineering (Nuclear Medicine)
Classification:	Band 7
Job Family:	Engineering and Technical
Position Description Number:	PD-2386
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM
STEMM CATEGORY:	Engineer

POSITION PURPOSE

The Senior Chemical Engineer is to provide chemical engineering insight and design solutions for capital projects in the Nuclear Medicine Portfolio. This position will understand and review project scopes from a chemical and process engineering perspective, and what implications these projects may have on processes within the Nuclear Medicine Precinct.

The Senior Chemical Engineer will provide guidance to project engineers and project managers to ensure that projects have the correct information and advice at the start of a project. Throughout the lifecycle of the project the Senior Chemical Engineer will review and sign off process drawings and documents. The Senior Chemical Engineer will liaise with the Lead Process Engineer to ensure that all projects apply a similar methodology.

ORGANISATIONAL ENVIRONMENT

ANSTO leverages great science to deliver big outcomes. We partner with scientists and engineers and apply new technologies to provide real-world benefits. Our work improves human health, saves lives, builds our industries and protects the environment. ANSTO is the home of Australia's most significant landmark and national infrastructure for research. Thousands of scientists from industry and academia benefit from gaining access to state-of-the-art instruments every year.

ANSTO Maintenance and Engineering (AME) provides comprehensive project management, engineering, technical and safety and reliability services and support for the organisation. AME is comprised of the following sub-business units: Capital Program and Management Office, Technical Services Group, Systems Safety & Reliability, Engineering Delivery & Special Projects, and the Asset Maintenance Support Group.

The Nuclear Medicine Products (NMP) cluster which includes the commercial businesses of ANSTO Health and ANSTO Nuclear Medicine are part of the larger Nuclear Precinct which includes OPAL. NMP generates revenue for ANSTO from the sale of nuclear medicine products and has a strong focus on meeting customer needs with timely and value added products and services.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

The key accountabilities for this position include:

- Undertake chemical and process design analysis, justification of design and safety features and review of engineering work including proposals, concepts, detailed designs, manufacturing, installation and commissioning, operation and maintenance issues.

- As required undertake project leadership roles within the nuclear medicine portfolio at Program or Senior Project Engineer/Manager level.
- Assist, mentor and guide engineers in the discipline to initiate projects including consulting with clients and management to gain acceptance of technical specifications and business cases. This includes developing cost benefit analyses of proposed options, seeking new solutions, and developing new techniques and methods. Willingly contribute to and encourage the sharing of knowledge within the discipline.
- Assess risks, costs and benefits associated with proposed solutions and the project delivery with the aim of achieving the desired outcome whilst having a positive impact on ANSTO's reputation.
- Assist project managers with sound focused technical solutions.
- Oversee finalisation of projects by ensuring engineers in discipline undertake project evaluations and liaise with key stakeholders to identify defects, maintenance schedules and commissioning requirements.
- Support project leads, including frequent communication and assistance with conflict resolution and negotiation.
- Lead or co-ordinate one or more major projects or tasks within projects including the management of the project or tasks, conception and development of project ideas and maintaining visibility of the project with internal and external stakeholders.
- Leverage project management skills to set goals and objectives, lead negotiations, manage and motivate multi-disciplinary or specialist project teams, disseminate specialist knowledge across the team, monitor and review work, co-ordinate cross divisional and external collaboration and ensure all milestones are achieved according to time and budget.
- Coach and mentor staff to develop and train staff, including the pro-active sharing of specialist knowledge to broaden the skill base of the team. Recognised as a leader within the group.
- Utilise specialist knowledge and experience to consider and evaluate issues brought about by factors of varying complexities.
- Work in a highly collaborate way, needing to build and maintain ongoing productive working relationships with internal and external stakeholders.
- Maintain knowledge of industry best practice and technological developments, investigate and assess the relevance of developments and their benefit to the division and ANSTO.
- Undertake additional duties as required and during period of leave of other staff.

Decision Making

- The position works within a framework of legislation, policies, professional standards, and resource parameters. Within this framework the position has some independence in determining how to achieve objectives of the projects, including deciding on methods and approaches, operations, project planning and allocation of resources.
- The position is fully accountable for the accuracy, integrity and quality of the content of advice provided, and is required to ensure that decisions are based on sound evidence, but at times may be required to make rational judgements with limited information or expert advice.
- The levels of authority delegated to this position are those approved and issued by the Chief Executive Officer. All delegations will be in line with the ANSTO Delegation Manual, AS-1682 (as amended or replaced).

Key Challenges

The major challenges for this position include:

- Provide quality customer service and manage customer expectations where there is a high workload and limited resources.
- Ensure compliance to a variety of both internal and external policy, guideline and regulatory requirements.
- Develop a technically competent and workable solution requiring a diverse range of knowledge and experience in a nuclear environment.
- Managing quality, cost, time and resources for multiple project tasks and jobs.
- Keeping abreast of recent developments in the field, ensuring continual improvement and implementation of best practise.
- Maintaining key customer relationships and needs, response times and delivery efficiencies.
- Overseeing the work of others who may not be direct reports to deliver results to agreed requirements, budget, and schedule.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager	<ul style="list-style-type: none">• Receive guidance and direction• Provide expert, authoritative and evidence based advice• Staff engagement and quality recruitment• Negotiate and report on budgets and resources consistent with strategic plans and goals• Recommend and gain endorsement for plans and goals and other initiatives
Work Area Team Members	<ul style="list-style-type: none">• Provide expert advice and analysis on a full range of matters• Contribute to group decision making processes, planning and goals• Collaborate and share accountability• Negotiate and resolve conflicts
Indirect Reports	<ul style="list-style-type: none">• Provide leadership, guidance and support• Provide Chemical Engineering advice• Engage to monitor trends, performance and progress against the strategic plan and evaluate further support which may be required to ensure delivery against the plan
Other Departments (ANM and ANSTO Health Projects)	<ul style="list-style-type: none">• Engage and collaborate with all levels of staff to meet project milestones and constraints• Comply with regulatory and system requirements specific to the pharmaceutical industry

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Senior Mechanical/Process Project Engineer within the Nuclear Medicine Portfolio
Direct Reports	Nil
Indirect Reports	May vary depending on the projects and work allocated.

Financial Data (2023/2024)	
Revenue / Grants	Nil
Operating Budget	Nil
Staffing Budget	Nil
Capital Budget	As defined by the projects allocated
Assets	Nil

Special / Physical Requirements	
Location:	Lucas Heights
Travel:	May be required travel to ANSTO sites from time to time
Physical:	Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer) Public speaking
Radiation areas:	May be required to work in radiation areas under tightly regulated conditions
Hours:	Willingness to work extended and varied hours based on operational requirements Shift work After hours work may be required for short and infrequent periods
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements Obtain and maintain appropriate federal government clearance

Workplace Health & Safety	
Specific role/s as specified in <u>AP-2362</u> of the ANSTO WHS Management System	All Workers Managers / Leaders / Supervisors Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties

ORGANISATIONAL CHART

This role reports to the Nuclear Health and Medicine Portfolio within ANSTO Maintenance & Engineering. There are no direct reports, but indirect reports may be allocated based on the project or allocated work.

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Degree in Chemical or Process Engineering. (Qualification acceptable to the Institute of Engineers Australia)
2. Extensive Project Management experience, including prior experience delivering chemical and process engineering solutions for an industrial, manufacturing, pharmaceutical or nuclear facility
3. Knowledge of chemical processing technologies related to nuclear, pharmaceutical, biotechnology, medical device and/or related industries.
4. Experience working under ISO 9001 quality standard, ARPANSA and TGA regulations; project planning and change management.
5. Understanding the importance of Work, Health and Safety, Environment, Quality and Regulatory requirements.
6. Meticulous, strong analytical and problem solving skills.
7. Good communication and collaboration skills whilst working in a team environment.
8. Willingness to pro-actively share knowledge, information and insight with team members.
9. Demonstrated ability to initiate and manage change, allocate resources effectively and identify and manage risks.

VERIFICATION

This section verifies that the line manager and appropriate senior manager/executive confirm that this is a true and accurate reflection of the position.

Line Manager		Delegated Authority	
Name:	Kaitlyn Gunderson-Briggs	Name:	Con Dedousis
Title:	Acting Nuclear Medicine Portfolio Manger	Title:	Acting General Manager of Engineering
Signature:		Signature:	
Date:		Date:	