



POSITION DESCRIPTION

Position Title:	Senior Mechanical/Process Project Engineer
Cluster / Business Unit / Division	Engineering & Capital Programs (E&CP)
Section or Unit:	Capital Projects
Classification:	Band 7
Job Family:	Engineering and Technical
Position Description Number:	PD-1314
Work Contract Type:	Technical
STEMM/NON-STEMM:	STEMM
STEMM CATEGORY:	Engineering

POSITION PURPOSE

The primary objective of the Senior Mechanical Project Engineer is to utilise specialised engineering judgement, expertise, and project management skills to design, develop and deliver engineering products and solutions to meet project objectives and ensure all project and customer technical, manufacturing, testing, commissioning, budgetary, safety, regulatory and quality assurance requirements are met.

ORGANISATIONAL ENVIRONMENT

ANSTO is the national organisation for nuclear science and technology. We focus on undertaking leading edge research, delivering innovative scientific services, and providing specialised advice to government, industry, academia and other research organisations.

E&CP provides comprehensive project management, engineering, technical and safety and reliability services and support for the organisation.

The projects typically delivered by this role involve the design, construction and commissioning of purpose-built facilities and facility upgrades that enable ANSTO to manufacture a reliable supply of the critical radioisotopes to Australia and enhance its standing as a major world supplier.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

The key accountabilities for this position include:

- Manage multiple project aspects from conception and development of project ideas, undertake scoping and costing, and team supervision ensuring work is delivered on time and budget.
- Responsible for the specification, design, acquisition of equipment and systems.
- Undertake engineering 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.
- Deliver client focused solutions with the ability to influence, negotiate and liaise with the client representatives, operational and senior staff.
- Manage customer relationships and ensure customers are informed of progress of projects including preparing and presenting reports and proposals.
- Utilise judgement and technical experience to undertake technically challenging development and design which require constant learning to keep abreast of technological and statutory changes.

- Undertake research and development and contribute to improvements in engineering by conceptualising and creating new and one-off innovative product solutions for clients;
- Undertake risk management, consider cost and benefits of proposed solutions, seek new solutions, and develop new techniques and methods.
- Oversee the development of all documentation required to support, design reviews, safety assessments, manufacturing and quality control, installation, commissioning, training, operation and maintenance activities.
- Lead, mentor and develop professional, technical and/or drafting staff with the aim of narrowing team skills gaps and empowering team members.
- Develop international networks to allow for external collaboration and sharing of information.
- Undertake additional duties as required and during periods of leave of other staff; and
- Fulfil WHS responsibilities as specified in AG-2362 of the ANSTO WHS system.

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 unit, including deciding on methods and approaches, operations, project planning, producing engineering solutions and allocation of resources.
- The ANSTO values, organisational corporate plan, business plan, operational excellence program, the Nuclear Operations Portfolio Management Plan provide the context for the position.
- The position is fully accountable for the accuracy, integrity and quality of the content of advice provided to Portfolio Manager, and is required to ensure that decisions are based on sound evidence, but at times may be required to make effective judgements under pressure or in the absence of complete information or expert advice.
- Determine key work priorities within the context of agreed work plans and will consult with the Portfolio Manager on complex, sensitive and major issues that have a significant impact on Nuclear Operations Portfolio.
- 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:

- Seeking innovative solutions to meet customer needs and managing customer expectations and requirements.
- Overseeing the work of others to deliver engineering solutions to agreed requirements, budget and schedule.
- Manage multidisciplinary team consisting of engineers, technical staff, consultants and contractors
- Ensure stringent GMP and nuclear design, environmental, safety and regulatory requirements are satisfied and met.
- Utilise good communication skills and adapt to a demanding GMP manufacturing and scientific environment.
- Assessment and integration of engineering solutions to comply with the requirements of the client.
- Develop and deliver the necessary engineering solution for safe and reliable operation of the new equipment and integration of newly sourced or manufactured equipment with existing infrastructure, equipment and systems.
- Assisting with commissioning and calibration of new equipment and systems; and
- Train end users in the use and operation of equipment.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager/Executive	<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
Direct Reports	<ul style="list-style-type: none"> • Provide leadership, guidance and support • Set performance requirements and manage performance and development • 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 (name)	<ul style="list-style-type: none"> • Develop relationships with clients and staff in all areas of ANSTO to facilitate successful delivery of engineering projects
External	
Title, group, committee, industry or business	<ul style="list-style-type: none"> • External suppliers, designers, trades staff • External customers when engaged in commercial work

POSITION DIMENSIONS

The Senior Mechanical/Process Project Engineer nominally reports to the Nuclear Operations Portfolio leader but depending on the specific project, may report to other program managers and/or portfolio leaders. The senior project engineer also has a discipline reporting line to the Lead Process Engineer within E&CP's matrix structure.

Projects have a team-based approach to work on complex project requirements and will lead small project teams during design, construction, and commissioning activities.

The position's main customer is Reactor Operations and Waste Management Services, but the role may also support projects in other divisions. During project delivery, the role interacts heavily with other ANSTO internal support groups such as Security, Safeguards, Government Communications, Procurement, QC, OH&S, and the Safety Assessment Committee. The role also interacts with external regulators such as ARPANSA and the TGA.

Staff Data	
Reporting Line	Reports to an AME Portfolio Leader
Direct Reports	3 to 6
Indirect Reports	Will be assigned and will vary according to the size and skillset required by the project

Special / Physical Requirements	
Location:	Lucas Heights Working in different areas of designated site/campus as needed

Travel:	May be required travel to ANSTO sites from time to time May be required to travel both internationally and nationally
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
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
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ORGANISATIONAL CHART

On file

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Relevant Mechanical or Chemical/Process Engineering degree (or equivalent relevant qualification and experience acceptable to the Institute of Engineers Australia).
2. Significant experience as a project engineer including prior experience delivering engineering solutions for an industrial, manufacturing, or nuclear facility.
3. Significant experience in the design, specification, procurement, assembly, testing, installation, and commissioning of designs in a regulated GMP and nuclear environment.
4. Significant knowledge of the production of radioisotopes and the design of equipment utilised in the production process.
5. Proven problem-solving ability in delivering creative and systematic solutions.
6. Demonstrated ability to manage large projects and utilise project and systems engineering management methodologies to deliver quality and fit-for-purpose outcomes.
7. Demonstrated experience as a senior member of a team.
8. Demonstrated experience in leading a multidiscipline team of professional, technical, drafting and trade staff.
9. Experience in customer management.
10. Technical skills including computing skills and analytical skills.
11. Business acumen, ability to think strategically and ability to influence and negotiate.

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: Con Dedousis	Name: Dave Filippetto
Title: NOPS Portfolio Manager	Title: General Manager
Signature:	Signature:
Date:	Date:

Appendix 1

ANSTO Job Families
Accounting & Finance
Administration
Communications & Marketing
Compliance & Regulation
Engineering and Technical
Human Resources
ICT & Digital Solutions
Information & Knowledge Management
Legal
Manufacturing
Monitoring & Audit
Operations
Organisational Leadership
Project & Program
Research
Science
Security & Intelligence
Senior Executive
Service Delivery
Strategic Policy
Trades & Labour