



## POSITION DESCRIPTION

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| <b>Position Title:</b>                    | Senior Project Engineer/ Manager |
| <b>Cluster / Business Unit / Division</b> | Commercial Products and Services |
| <b>Section or Unit:</b>                   | ANSTO Detection and Imaging      |
| <b>Classification:</b>                    | Band 7                           |
| <b>Job Family:</b>                        | Engineering and Technical        |
| <b>Position Description Number:</b>       | PD-0115                          |
| <b>Work Contract Type:</b>                | Professional                     |
| <b>STEMM/NON-STEMM:</b>                   | STEMM                            |
| <b>STEMM CATEGORY:</b>                    | Engineering                      |

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### POSITION PURPOSE

As part of the ANSTO Detection and Imaging business unit, the primary objective of the Senior Project Engineer / Manager is to lead and manage projects to deliver engineering products/solutions to meet customer requirements from concept development to manufacturing, testing and commissioning, ensuring conformance to statutory regulations and procedures.

### 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.

The ANSTO Detection and Imaging business unit is part of Commercial Products and Services, which drives and stimulates integration, innovation, and engagement amongst our internal and external stakeholders. The group plays a key role in ANSTO's future growth and development projects and helps to facilitate ANSTO's evolution into a more outward-looking organisation.

The ANSTO Detection and Imaging business unit houses a multi-disciplinary team focused on the detection and imaging of ionising radiation. Core activities within the team include product development, research and development, transitioning radiation detection and imaging technologies to market, and the provision of scientific and technical advice, on behalf of ANSTO, to stakeholders in Government.

The Senior Project Manager reports to the CTO/Principal Scientist of ANSTO Detection and Imaging. Although the position has no direct reports the role will undertake Project Leadership roles with a strong focus on the supervision and guidance of project team members including scientists, engineers, and technical staff.

### ACCOUNTABILITIES & RESPONSIBILITIES

#### Key Accountabilities

The key accountabilities for this position include:

- Deliver project-managed and technically sound engineering services meeting all project and customer requirements, including technical, budgetary, safety, regulatory and quality assurance systems requirements.
- Lead multiple large projects from conception and development of project ideas, undertake scoping and costing, lead multi-disciplinary teams, monitoring and reviewing work, and ensuring work is delivered on time and budget.

- 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.
- Develop international networks to allow for external collaboration and sharing of information.
- Deliver client focused solutions with the ability to influence, negotiate and liaise with senior staff including reporting to Board and CEO. Manage customer relationships and ensure customers are informed of progress of project.
- Utilise judgement and technical experience to undertake technically challenging development and design which require constant learning to keep abreast of technological and statutory changes.
- Coaching and mentoring of staff to develop and train staff including sharing of specialist knowledge. Recognised as a leader within the group.
- Represent ANSTO at international conferences by presenting conference papers and write journal articles.
- Undertake risk management, cost and benefits of proposed solutions, seek new solutions, and develop new techniques and methods.
- Undertake additional duties as required and during periods of leave of other staff.
- 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 and allocation of resources.
- The position is fully accountable for the accuracy, integrity, and quality of the content of his/her work provided 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.
- 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.
- Managing, quality, cost, time and resources for multiple projects and jobs.
- Overseeing the work of others to deliver results to agreed requirements, budget, and schedule.

### KEY RELATIONSHIPS

| Who                             | Purpose   |
|---------------------------------|---|
| <b>Internal</b>                 |   |
| Manager/Executive               | <ul style="list-style-type: none"> <li>• Receive guidance and direction</li> <li>• Provide expert, authoritative and evidence based advice</li> <li>• Staff engagement and quality recruitment</li> <li>• Negotiate and report on budgets and resources and projects consistent with strategic plans and goals</li> <li>• Recommend and gain endorsement for plans and goals and other initiatives</li> </ul> |
| Work area team members          | <ul style="list-style-type: none"> <li>• Provide expert advice and analysis on a full range of matters</li> <li>• Contribute to group decision making processes, planning and goals</li> <li>• Collaborate and share accountability</li> <li>• Negotiate and resolve conflicts</li> </ul>   |
| Indirect Reports (project team) | <ul style="list-style-type: none"> <li>• Provide leadership, guidance and support</li> </ul>  |

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|   | <ul style="list-style-type: none"> <li>• Set performance requirements and manage performance and development (where appropriate)</li> <li>• Leads and Engages to monitor trends, performance and progress for projects and evaluate further support which may be required to ensure project delivery</li> </ul>                     |
| Other departments                       | <ul style="list-style-type: none"> <li>• Develop relationships with clients and staff in all areas of ANSTO to facilitate successful delivery of projects</li> </ul>  |
| <b>External</b>                         |   |
| Customers/Collaborators                 | <ul style="list-style-type: none"> <li>• Establish constructive relationships.</li> <li>• Consult to identify requirements and desired outcomes.</li> <li>• Provide advice on analytical capabilities, analysis and training</li> </ul>   |
| National and international stakeholders | <ul style="list-style-type: none"> <li>• Establish constructive relationships.</li> <li>• Develop fit-for-purpose ionising radiation products to meet stakeholder needs.</li> <li>• Communicate scientific outcomes, identify opportunities for continuous improvement and identify commercial/development opportunities</li> </ul> |

## POSITION DIMENSIONS

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| <b>Staff Data</b> |   |
| Reporting Line    | <ul style="list-style-type: none"> <li>• CTO/Principal Scientist</li> </ul>   |
| Direct Reports    | <ul style="list-style-type: none"> <li>• Nil</li> </ul>   |
| Indirect Reports  | <ul style="list-style-type: none"> <li>• Will be assigned and will vary according to the size and skillset required by the project</li> </ul> |

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| <b>Special / Physical Requirements</b> |   |
| Location:                              | <ul style="list-style-type: none"> <li>• Lucas Heights</li> <li>• Working in different areas of designated site/campus as needed</li> </ul>   |
| Travel:                                | <ul style="list-style-type: none"> <li>• May be required to travel to different ANSTO sites from time to time</li> <li>• May be required to travel both internationally and nationally</li> </ul>                                   |
| Physical:                              | <ul style="list-style-type: none"> <li>• Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer)</li> <li>• Public speaking</li> </ul> |
| Radiation areas:                       | <ul style="list-style-type: none"> <li>• May be required to work in radiation areas under tightly regulated conditions</li> </ul>   |
| Hours:                                 | <ul style="list-style-type: none"> <li>• Willingness to work extended and varied hours based on operational requirements</li> <li>• After hours work may be required for short and infrequent periods</li> </ul>                    |
| Clearance requirements:                | <ul style="list-style-type: none"> <li>• Satisfy ANSTO Security and Medical clearance requirements</li> <li>• Obtain and maintain appropriate federal government clearance</li> </ul>   |

## Workplace Health & Safety

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| Specific role/s as specified in <u>AP-2362</u> of the ANSTO WHS Management System | <ul style="list-style-type: none"> <li>• All Workers</li> <li>• Managers / Leaders / Supervisors</li> <li>• Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties</li> </ul> |
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**ORGANISATIONAL CHART**

This role reports to the CTO/Principal Scientist of ANSTO Detection and Imaging. There are no direct reports but indirect reports may be allocated based on the project or work.

**KNOWLEDGE, SKILLS AND EXPERIENCE**

1. Engineering Degree Qualification acceptable to the Institute of Engineers Australia (usually a mechanical engineering degree or a nuclear engineering degree).
2. Significant experience as a Mechanical Engineer.
3. Proven problem-solving ability in delivering creative and systematic solutions.
4. Demonstrated ability to lead large projects and utilise project management methodologies to deliver quality and fit-for-purpose outcomes.
5. Demonstrated leadership skills.
6. Experience in customer management.
7. Technical skills including computing skills and analytical skills.
8. Business Acumen, ability to think strategically, salesmanship 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.

| <b>Line Manager</b> |   | <b>Delegated Authority</b> |   |
|---------------------|---|----------------------------|---|
| Name:               | David Boardman  | Name:                      | Bruce Begg                                      |
| Title:              | CTO/Principal Scientist – ANSTO Detection and Imaging | Title:                     | Executive Manager Nuclear Business - Consulting |
| Signature:          |   | Signature:                 |   |
| Date:               |   | Date:                      |   |