



Courage in Wisdom | Hope in Love

Job Description

Title:	Design and Technologies Teacher (Engineering and Materials)
Reports to:	Head of Secondary
EBA/Award:	South Coast Baptist College Teaching Agreement 2024
FTE:	1.0
Employment Type:	Permanent

Position Summary

The Design and Technologies Teacher (Engineering and Materials) is responsible for delivering engaging, innovative, and high-quality learning programs within the Technologies Learning Area. The role focuses on developing students' understanding of engineering principles, design processes, materials technologies, and contemporary production practices through both practical and theoretical learning experiences.

The successful applicant will foster a safe, inclusive, and stimulating learning environment that encourages creativity, problem-solving, critical thinking, and technical skill development. They will contribute to curriculum development, student wellbeing, and the broader life of the College while modelling Christian values and supporting the mission and ethos of South Coast Baptist College.

Job Description

As a Design and Technologies Teacher (Engineering and Materials) at South Coast Baptist College, you will:

Teaching and Learning

- Plan, prepare, and deliver high-quality teaching and learning programs aligned with the Western Australian Curriculum – Technologies, with particular emphasis on Design and Technologies, Engineering Principles and Systems, and Materials and Technologies.
- Teach practical and theoretical components of Technologies, Engineering, and Materials Design and Technology across Years 7–10, with the capacity to contribute to senior secondary pathways including Engineering Studies and related Technologies courses.
- Design engaging learning experiences that develop students' understanding of the design process, engineering principles, materials, systems, sustainability, project management, problem-solving, prototyping, evaluation, and safe production practices.
- Develop students' skills in areas such as plastics, electronics, mechanisms, basic fabrication, measurement, technical drawing, computer-aided design (CAD), digital manufacturing, and contemporary production processes.
- Use a variety of instructional strategies including explicit teaching, practical demonstrations, modelling, inquiry-based learning, collaborative design challenges, and project-based learning to meet diverse student learning needs.
- Differentiate teaching and assessment practices to cater for a range of abilities, interests, learning styles, and backgrounds.
- Integrate digital technologies and contemporary workshop practices to enhance student engagement and learning outcomes, including CAD software, laser cutting, 3D printing, electronics, robotics, simulation tools, and emerging technologies where appropriate.



- Use formative and summative assessment data to monitor student progress, provide timely feedback, and inform future teaching practice.
- Support students to achieve their personal best through effective classroom management, encouragement, and pastoral care.

Learning Environment and Safety

- Establish and maintain a safe, inclusive, orderly, and respectful learning environment within practical workshop, engineering, and materials-based settings.
- Ensure compliance with all relevant Work Health and Safety requirements, risk management procedures, College policies, and safe operating procedures.
- Explicitly teach, model, and reinforce safe work practices, including the correct use of hand tools, power tools, machinery, personal protective equipment, materials, adhesives, soldering equipment, electrical components, and digital fabrication technologies.
- Promote a strong culture of workshop safety, personal responsibility, care for equipment, and respect for shared learning spaces.
- Conduct risk assessments for practical activities and ensure students are appropriately instructed, supervised, and assessed for safe use of tools, materials, and equipment.
- Work collaboratively with Technologies staff and support staff to coordinate resources, equipment, storage, maintenance, ordering, and lesson preparation.
- Promptly report Workplace Health and Safety matters, hazards, equipment concerns, and incidents involving staff or students in accordance with College procedures.

Curriculum, Assessment and Reporting

- Develop and implement teaching programs that demonstrate clear alignment between curriculum content, assessment tasks, achievement standards, and reporting requirements.
- Contribute to curriculum planning, review, and continuous improvement within the Technologies Department.
- Design assessment tasks that allow students to demonstrate practical skills and theoretical understanding through investigation, design development, production, testing, evaluation, technical documentation, and reflection.
- Participate in assessment moderation and collaborative review processes to ensure consistency of standards.
- Maintain accurate records of student progress, assessment results, attendance, behaviour, and other documentation required for reporting and compliance purposes.
- Complete unit evaluations and contribute to the ongoing improvement of Technologies programs, resources, assessment practices, and student outcomes.

Professional Responsibilities

- Work collaboratively with colleagues within the Technologies Department and broader Secondary School on curriculum planning, assessment moderation, resource development, and student support.
- Communicate professionally and constructively with students, parents, colleagues, and school leaders regarding student progress, wellbeing, behaviour, and learning needs.
- Contribute to documented learning plans and reasonable adjustments for students requiring additional support or extension.
- Participate in faculty meetings, staff meetings, professional learning activities, classroom observations, school events, and other College activities as required.



- Engage in ongoing professional learning to remain current with curriculum developments, workshop safety requirements, emerging technologies, and effective teaching practices.
- Maintain programs, assessments, resources, risk management documentation, and other materials required for school registration and accreditation.
- Model professional conduct consistent with the College's mission, vision, values, policies, and Code of Conduct.
- Support and uphold the Christian ethos and values of South Coast Baptist College.

Selection Criteria

Essential

- A recognised teaching qualification and eligibility for registration with the Teacher Registration Board of Western Australia (TRBWA).
- Demonstrated experience teaching Design and Technologies, Engineering, Materials Design and Technology, or related Technologies subjects.
- Sound knowledge of the Western Australian Curriculum and assessment requirements for Technologies.
- Demonstrated ability to develop and deliver engaging practical and theoretical learning programs.
- Strong classroom management and student engagement skills.
- Demonstrated commitment to maintaining high standards of workshop safety and risk management.
- Ability to effectively integrate digital technologies and contemporary production practices into teaching and learning.
- Strong interpersonal and communication skills, with the ability to work collaboratively within a team environment.
- Commitment to ongoing professional growth and development.
- Support for the Christian ethos, values, and mission of South Coast Baptist College.

Desirable

- Experience teaching senior secondary Engineering Studies or related Technologies courses.
- Experience using CAD software, 3D printing, laser cutting, robotics, electronics, simulation software, or other emerging technologies.
- Experience in workshop management, resource coordination, and equipment maintenance.
- Experience delivering flight simulation programs or related aviation-based learning opportunities.
- Current First Aid Certificate and relevant safety training.

General Requirements

- To have a personal faith and commitment to the Lord Jesus Christ.
- To actively be a part of a Church or Christian community and exemplify Christian beliefs, behaviour, and practices.
- To accept the College's Statement of Faith.
- Build co-operative and supportive relationships with the board, principal, staff, students and parents.
- Work to ensure personal best practice.
- Ensure that decision making is based on fact and is impartial and fair.
- Model the use of appropriate and proper channels of communication.
- Always act in the best interest of the College and its ethos.



- Commitment to maintaining a child-safe environment in line with the College's values and policies.
- Working With Children Card.
- National Police Clearance.
- Contribute to a safe and healthy workplace by:
 - Following WH&S instructions and policies
 - Reporting accidents and hazards
 - Generally caring for own safety and that of others, including volunteers, students, and parents.
 - First Aid Certificate, or willingness to obtain one upon commencement.

Other Matters

Professional Review

This position description is intended as a framework for professional review and development and may be amended in consultation with the employee to meet the evolving needs of the College.

Position Held By:	
Signed:	
Date:	