



Position Description: Visiting Student Computer Scientist

Position Objectives:

To teach and mentor Year 9 Students in an extension Digital Technologies course working in small groups. Developing supportive curriculum materials to help students learn advanced concepts in robotics, electronics and coding.

Incumbent:

Reports to:
Dean of Innovation

All St Kevin's staff are required by their position to:

- Demonstrate commitment to the College's vision and mission
- Model and promote the gospel values and understand the charism of Edmund Rice in all aspects of leadership and community life. Contribute to the delivery of strategy and plan.
- Foster a culture of excellence by supporting and driving high academic standards, innovation in teaching, and evidence-informed practice.
- Demonstrate inclusive leadership by actively promoting diversity, equity, and the dignity of all individuals
- Support collaborative decision-making by practicing subsidiarity and empowering others through shared leadership.
- Strengthen community connections through transparent communication and authentic partnerships with key stakeholders.
- Act as a responsible steward of College resources.
- Stay abreast of and comply with all College policies.

Key Responsibilities:

Facilitate	• Teach, mentor, and inspire Year 9 students through an engaging, hands-on Digital Technologies program, fostering curiosity, confidence, and problem-solving skills. • Inspire students to explore further study and careers in electronics, software engineering, robotics, and STEM disciplines through real-world applications and practical demonstrations. • Facilitate learning in small groups, providing individual guidance and encouraging active participation in practical investigations and collaborative projects. • Foster an inclusive and supportive learning environment that promotes teamwork, communication, resilience, and scientific inquiry.
Practical Experiments	• Encourage students to document their designs, observations, testing procedures, and outcomes using appropriate engineering and scientific practices. • Demonstrate the use of common Computer Aided Design tools such as 3D printing and laser cutting, along with the software to design for these. • Support students in exploring contemporary computing technologies such as AI • Support students in preparing for coding competitions such as the Australian Informatics Olympiad. • Introduce students to programmable electronics platforms such as microcontroller boards, demonstrating how hardware and software integrate to create interactive electronic systems. • Guide students through the design and development of simple software applications such as games and interactive websites. • Encourage creative thinking by supporting students in working with robotics platforms or devices.
Resources	• Develop and refine supportive curriculum resources, lesson materials, and practical activities that introduce digital technologies principles in an accessible and engaging manner.



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Risk Management	• Contribute to a healthy and safe work environment by complying with all safe work policies and procedures, and ensuring all reasonable steps are taken to identify and manage foreseeable risks.
Child Safety	• Comply with the College's child-safe policy, code of conduct and any other policies or procedures relating to child safety. • Assist in the provision of a child-safe environment for students. • Lead regular risk assessments of College sporting facilities to ensure compliance with Child Safe Standards and contribute to a safe environment for all students. • Demonstrate duty of care to students in relation to their physical and mental wellbeing • Coordinate scheduled risk assessments across all sporting, outdoor and changing spaces to ensure requirements remain current and any issues are escalated and actioned.
Professional Development	• Build capacity through targeted professional learning programs to keep abreast of current educational understanding and personal, professional growth.
General Duties	• Abide by the St Kevin's College Code of Conduct. • As required, attend College meetings, conferences and after school events, faith days and liturgies. • Attend school meetings, conferences and after school services/assemblies, sporting events, mass, community and faith days as required by the Principal or Deputy Principal (Operations) • Be available on call during the term break and other 'out of school hours' times for situations that may arise • Demonstrate professional and collegiate relationships with colleagues • Other duties as directed by the Principal and their delegates

Selection Criteria:

Commitment to Catholic Education	• A demonstrated understanding of the ethos of a Catholic school and its mission • A demonstrated understanding of the mission and vision of the College
Commitment to Child Safety	• A demonstrated understanding of child safety • A demonstrated understanding of appropriate behaviours when engaging with children • Be a suitable person to engage in child-connected work • Must hold or be willing to acquire a Working with Children Check Card and must be willing to undergo a National Police Record Check
Education and Experience	Essential • Bachelor's degree (or higher) in Electronics Engineering, Electrical Engineering, Software Engineering • Demonstrated practical experience with robotics, computer aided design, programming and electronics • Previous experience teaching, tutoring, mentoring, or facilitating STEM learning activities • WWWC • NPC • Mandatory Training



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Skills and Attributes

- **Teaching/Mentoring:** Ability to explain technical concepts clearly, support individual learning, and engage Year 9 students through hands-on activities.
- **Computing Knowledge:** Sound understanding of basic electronics, coding languages (Python preferred), robotics and computer aided design.
- **Communication Skills:** Strong verbal and interpersonal skills to effectively communicate with students, teachers, and colleagues.
- **Problem Solving:** Ability to diagnose circuit faults, guide students through challenges, and encourage analytical thinking.
- **Team work and Collaboration:** Experience working collaboratively in small groups while fostering an inclusive, supportive, and positive learning environment.
- **Strong organisational skills:** Ability to plan practical activities, develop learning resources, manage equipment responsibly, and maintain safe laboratory and workshop practices.