

# STEM

Science  
Technology  
Engineering  
Mathematics

*Approved Specialist Program*

CHAMPIONS  
*Innovation*  
ACADEMY

STEM is an approach to learning and development that empowers individuals with skills to succeed and adapt to this changing world. By securing a place in our Champions Innovation Academy, your child will develop key skills in areas that are essential to Australia's productivity, innovation and success.

Applications open for entry in 2024

The Champions Innovation Academy at Champion Bay Senior High School is the only selective Approved Specialist Program in the Midwest Region.

Selection is based on a number of criteria:

- performance in system testing such as National Assessment Program Literacy and Numeracy (NAPLAN)
- participation in the Primary Extension and Academic Challenge (PEAC)
- school reports and
- extensive consultation with your child's current primary school.

Selected students will be invited to complete the following selection assessments at Champion Bay Senior High School:

- general aptitude test;
- writing assessment; and
- Mathematics and Science assessment.

**Students from all primary schools in the Geraldton region are able to apply for this selective program.**

If you would like your child to be considered for this program, please submit the attached application form.

For more information, phone us on (08) 9965 8300.

CHAMPION BAY  
SENIOR HIGH SCHOOL



ENLIGHTEN



# CHAMPIONS Innovation ACADEMY

## HOW THE JOB MARKET IS CHANGING



**50%**  
of current jobs with skill shortages are in STEM fields.



**75%**  
of all new jobs will require skills in STEM.



**90%**  
of jobs will need digital skills in the next 2-5 years.

Employers expect their need for STEM professionals to increase in the next 5 to 10 years.



We need to act now as one third of 15 year olds do not have the skills that employers want.

### Participating in the Champions Innovation Academy

Students who participate in the Champions Innovation Academy are provided with a differentiated curriculum including:

- extension in Mathematics and Science
- enrichment in Humanities and Social Sciences as well as English
- study of Indonesian as a second language
- STEM term-based inquiry learning projects, external competitions, school-based workshops and
- afterschool activities.

Developing strong study skills and the key STEM competencies are an essential aspect of the program.

Students are expected to:

- maintain academic 'good standing'
- demonstrate a superior work ethic
- show exemplary behaviour within the school environment and whilst representing the Champion Bay Senior High School community and
- keep regular attendance (90% or better).

Participation in a minimum number of afterschool STEM activities each term will be required.

Successful candidates will be notified by a formal offer of placement and will continue in the Academy until the end of Year 10.

## Expression of Interest for Student Participation

# Champion Bay Senior High School Approved Specialist Program Champions Innovation Academy 2024



### APPLICANT DETAILS

|                               |                |
|-------------------------------|----------------|
| Student Details: Family Name: | First Name:    |
| Preferred Name:               | Date of Birth: |
| Parent Details: Family Name:  | First Name:    |
| Email Address:                | Phone Number:  |

Correspondence relating to the Champions Innovation Academy will be through email. Please ensure you include a current email address in this application.

Home Address: \_\_\_\_\_

Current School: \_\_\_\_\_

Is the applicant Aboriginal or Torres Strait Islander?

- No     Yes, Aboriginal     Yes, Torres Strait Islander     Yes, both Aboriginal and Torres Strait Islander

Does the applicant participate in any of the following programs? Tick all that apply.

- None     PEAC     Instrumental Music School Services (IMSS)

Does the applicant have a sibling currently enrolled at Champion Bay Senior High School?     Yes     No

If yes, please provide the name of the sibling: \_\_\_\_\_

What are the applicant's academic strengths? \_\_\_\_\_

What are his/her interests? \_\_\_\_\_

Please let us know of any possible post-school pathway: \_\_\_\_\_

### ORIGINAL DOCUMENTS REQUIRED FOR APPLICATION

Please bring the following original documents when you submit your application:

- Birth Certificate
- Australian Citizenship Certificate (if applicable)
- Passport with appropriate visa (if applicable)
- Student's school reports for the previous 2 semesters and please include current NAPLAN information
- PEAC report (if available)

### PLEASE NOTE

Applications must be fully completed and include all documents.

**PLEASE RETURN TO  
CHAMPION BAY SENIOR HIGH SCHOOL BY**

**Friday 16 June 2023**

**TESTING COMMENCES**

**Wednesday 21 June 2023**

**CHAMPION BAY  
SENIOR HIGH SCHOOL**



ENLIGHTEN

08 9965 8300 • 90 Highbury St, Geraldton WA 6530 • [championbay.shs@education.wa.edu.au](mailto:championbay.shs@education.wa.edu.au)

### OFFICE USE

Date: \_\_\_\_\_

# WHY CHOOSE STEM?

Employer demand for graduates with these qualifications and skills is on the rise and will continue to increase as job roles diversify.

Employment opportunities in STEM related industries are increasing each year. Employers are looking for:

- Analytical skills - Analysing and interpreting information and assessing the best course of action.
- Scientific skills - Breaking down complex scientific concepts and systems.
- Mathematical skills - Accurately gathering and analysing data. Applying simple and complex equations to solve problems.
- Technical skills - Troubleshooting and debugging a complex technological system or repairing a machine.

While obtaining STEM related qualifications is extremely important, studying STEM subjects also provides transferable skills that are essential to competing in today's job market. These transferable skills include:

- problem solving
- creativity
- critical analysis
- teamwork
- independent thinking
- initiative
- communication
- digital literacy.

Your child needs to have an entrepreneurial mindset to manage a portfolio career. Young people will need to:

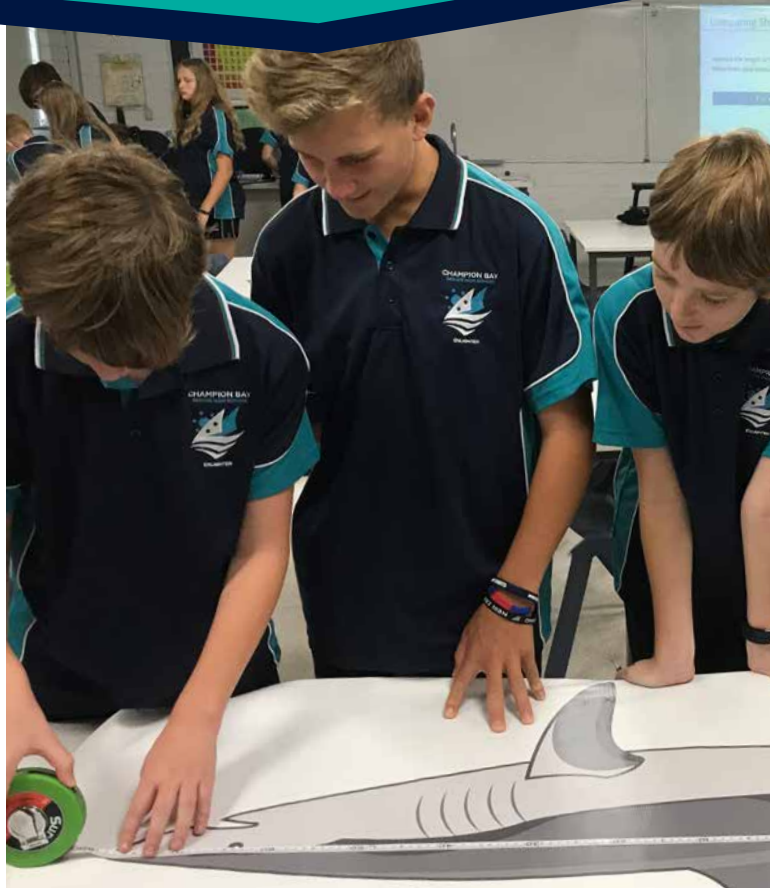
- be active problem solvers
- be communicators of ideas
- have a more entrepreneurial mindset
- have an appetite for lifelong learning.

Young people will spend more time:

- using verbal communication and interpersonal skills
- learning on the job
- thinking critically and making judgements
- using science and mathematics skills
- solving problems.

By 2030, workers will spend less time on:

- teaching
- organisational co-ordination
- management.



## EMERGING CAREERS IN STEM FIELDS



- Environmental studies
- Other natural and physical sciences
- Fisheries studies
- Engineering and related technologies
- Information technology
- Earth sciences
- Forestry studies
- Biological sciences
- Agriculture, horticulture and viticulture