## Research Engineer (Motor Systems) - ATCH1
## Singapore Institute of Technology

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| **Job Title** | Research Engineer (Motor Systems) - ATCH1 |
| **Department** | Engineering |
| **Institution** | Singapore Institute of Technology |
| | Singapore, , Singapore |
| **Date Posted** | Jun. 12, 2024 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | Available immediately |
| **Job Categories** | Professional Staff |
| **Academic Field(s)** | Electrical and/or Electronics |
| **Job Website** | https://careers.singaporetech.edu.sg/cw/en/job/498701/research-engineer-motor-systems-atch1 |
| **Apply By Email** | |
| **Job Description** | |

# Research Engineer (Motor Systems) - ATCH1

**Job no:** 498701
**Department:** Engineering
**Contract type:** Contract
Apply now

As a University of Applied Learning, SIT works closely with industry in our research pursuits. Our research staff will have the opportunity to be equipped with applied research skill sets that are relevant

to industry demands while working on research projects in SIT.

The primary responsibility of this role is to deliver on an industry innovation research project where you will be part of the research team to develop advanced motor systems for wearable assistive devices. In this position, you will be at the forefront of introducing novel motor methodologies that enhance the functionality, efficiency, and user experience of these cutting-edge devices. You will be involved in the entire process, from conceptual design and simulation to prototyping and iterative testing, ensuring that our solutions meet rigorous performance standards and healthcare industry requirements.

As a member of our research team, you will work closely with experienced professionals and industry partners to understand the specific demands and challenges associated with wearable assistive devices. You will gain hands-on experience with state-of-the-art tools and methodologies, developing motors that are not only user-apt but also practical and scalable for real-world applications. This role provides a unique opportunity to bridge the gap between theoretical knowledge and practical application, equipping you with valuable skills that are highly sought after in the industry.

This position is also ideal for candidates who are eager to embark on a career in applied research and development. You will have the chance to contribute to impactful projects that improve quality of life and mobility for users of wearable assistive devices. Through this role, you will develop a strong foundation in motor technology and applied research, positioning yourself for future opportunities in the dynamic and rapidly evolving field of wearable technology.

## Key Responsibilities

- Participate in and manage the research project with Principal Investigator (PI), Co-PI and the research team members to ensure all project deliverables are met.
- Undertake these responsibilities in the project:
    i. Design and develop novel motor prototypes tailored for wearable assistive devices.
    ii. Conduct performance analysis and testing of motor systems under various conditions.
    iii. Collaborate with cross-functional teams to integrate motor solutions into the overall device architecture.

- Carry out Risk Assessment, and ensure compliance with Work, Safety and Health Regulations.
- Coordinate procurement and liaison with vendors/suppliers.
- Work independently, as well as within a team, to ensure proper operation and maintenance of equipment.

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## Job Requirements

- Have relevant competence in the areas of electronics, control, and device power.
- Have a degree in an engineering bachelor degree related to motors.
- Knowledge of motor design and selection will be advantageous

## Key Competencies

- Document and present research findings to stakeholders.
- Able to build and maintain strong working relationships with people within and external to the university.
- Self-directed learner who believes in continuous learning and development
- Proficient in technical writing and presentation
- Possess strong analytical and critical thinking skills
- Show strong initiative and take ownership of work

Apply now
**Advertised:** 12 Jun 2024 Singapore Standard Time
**Applications close:** 31 Dec 2024 Singapore Standard Time

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### Contact

Singapore