Southeast College

POSITION SUMMARY

Student Researchers support applied research and innovation projects at Southeast College. They contribute to the design, development, testing, and implementation of real-world technical solutions while gaining hands-on experience in research, software development, and project collaboration.

Student Researchers may work on a variety of applied research initiatives including software development, data science, digital tools, community innovation projects, and emerging technologies.

This role provides opportunities for students to develop technical skills, collaborate with industry partners, and contribute to meaningful community-focused research.

POSITION DETAILS

Location	**Estevan or Weyburn (Hybrid or Remote)**
Number of Positions	1
Employment Terms	**Part-time (15-30 hours/week)**
Position Tier	**Tier 3 - Advanced Student Researcher**
Start Date	**May 1, 2026**
End Date	**August 31, 2026**
Length of Employment	17 weeks
Apply by	**April 10, 2026**

RESPONSIBILITIES

Typical duties of the Applied Research Student may include, but are not limited to:

- Contribute to the development, testing, and maintenance of software systems and technical projects.
- Assist with the design, implementation, and documentation of applied research and software development initiatives.
- Support data collection, analysis, and troubleshooting activities related to project work.
- Collaborate with faculty, researchers, and students to plan and execute project tasks.
- Participate in project meetings and provide updates on progress and technical challenges.
- Document project work, technical processes, and results for internal reporting or knowledge sharing.
- Assist with coordination of project activities, events, or demonstrations related to applied research initiatives.
- Contribute to testing, debugging, and refinement of prototypes or software solutions.
- Additional duties as required.

PROJECT

- Analyze historical dispatch dataset to support applied research objectives
- Clean and structure data for exploratory analysis and machine learning
- Develop and test an early prototype model for dispatch prediction and efficiency analysis
- Document methods, findings, and recommendations for future project phases

QUALIFICATIONS

1. **Required Education & Experience**

- Currently enrolled in or recently completed a master's degree in computer science, software engineering, data science, or a related STEM field.
- Strong experience contributing to research projects, advanced software systems, or technical development initiatives.
- Demonstrated strong proficiency in at least one major programming language (e.g., Python, JavaScript, Java, C++, or similar).
- Demonstrated ability to independently design, implement, and evaluate technical solutions.
- Experience contributing to published research, conference presentations, technical reports, or open-source research software is considered an asset.
- Experience providing mentorship, training, technical leadership, or coordinating project work within a team environment is considered an asset.
- Experience using version control systems and project tracking or issue management tools (e.g., GitHub Projects, Jira, Trello, or similar) is considered an asset.

2. **Knowledge, Skills, & Abilities**
   - Strong problem-solving and analytical thinking skills.
   - Ability to learn new technologies and technical concepts quickly.
   - Strong written and verbal communication skills.
   - Ability to work both independently and collaboratively within a team environment.
   - Strong organizational and time management skills.
   - Interest in software development, applied research, and technology innovation.
   - Experience working on technical projects, academic research, or software development projects is considered an asset.

3. **Other Requirements**
   - Satisfactory Criminal Record Check Required

This position is ideal for students who are passionate about software development, applied research, and project-based learning, and who are interested in contributing to innovative technical projects while developing their professional and technical skills.