

EMPLOYMENT POSITIONS

at Storming Robots

Last update: Dec, 2023

- I To Apply
- II Summary List of Positions At Storming Robots
- III Characteristics of Classes, Basic Qualification, typical schedule
 - Our classes:
 - Typical Instructors tasks:
 - About students:
 - Basic Qualification for instructors/assistants:
 - Typical schedule for instructors/assistants:
- IV INSTRUCTORS / ASSISTANTS POSITIONS DETAILS
 - IV.1 Webots Robotics Simulation Instructor for Gr. 8-12
 - IV.2 Robotics with Arduino (Programming in C/C++) Instructor
 - IV.3 Computer Science Instructor for Gr.8-12
 - [*** Description ***](#)
 - [*** Specific Qualifications ***](#)
 - [*** Compensation ***](#)
 - IV.4 Robotics Workshop or Computer Science Assistant
 - [*** Compensation ***](#)
 - [IV.5 Competitive Math Tutor - Gr. 6 to 8](#)
- V Technical Courseware Writer
 - [*** Description ***](#)
- VI. Office Staff
 - VI.1 Programs Coordinator
 - [*** Description ***](#)
 - [*** Qualifications ***](#)
 - [*** Compensation ***](#)
 - [*** Typical Schedule ****](#)
 - VI.2 Office Work Clerk
 - [*** Description ***](#)
 - [*** Qualifications ***](#)
 - [*** Compensation ***](#)
 - [*** Typical Schedule ****](#)

I To APPLY

[Fill out the Employment Application Form](#)

OR

SEND A COMPLETED APPLICATION VIA ONE OF THE FOLLOWINGS:

EMAIL : office@stormingrobots.com

II SUMMARY LIST OF POSITIONS AT STORMING ROBOTS

(click on each of the following to view the details)

1. [↪ *Webots Robotic Simulation Instructor / Assistant*](#)
2. [↪ *Robotics and Electronic \(Arduino\) Instructor*](#)
3. [↪ *Computer Science Instructor / Assistant*](#)
4. [↪ *Robotics Instructor / Assistant for Gr.5-8*](#)
5. [↪ *Technical Courseware Developer/Writer*](#)
6. ~~[↪ *Competitive Math Instructor for Gr. 6+*](#)~~
7. [↪ *Programs Coordinator*](#)
8. [↪ *Office Clerical Work*](#)

III CHARACTERISTICS OF CLASSES, BASIC QUALIFICATION, TYPICAL SCHEDULE

OUR CLASSES:

1. All robotics classes involve applications-based projects, heavily focused on hands-on exercises and open-ended challenges.
2. All exercises build higher order of thinking to perform a lot of analysis and troubleshooting. No spoon-feeding.
3. Heavily emphasize analytical, troubleshooting skills, and software programming development.
4. If it is a class working with a physical robot, it involves only small-scale building but does cover mechanical functions.
5. Professional but casual working environment with secure computer labs.

TYPICAL INSTRUCTORS TASKS:

1. Update students status weekly.
2. Complete a simple performance evaluation for students at the end of each term.

3. Closely communicate with the administrator regarding students' status. Attend one to two online staff meetings each term.

ABOUT STUDENTS:

Students are gifted and talented students from their own schools. All have met our Spatial and Logical assessment before entering the program

BASIC QUALIFICATION FOR INSTRUCTORS/ASSISTANTS:

1. With Mindset of loving "How Stuff Works" and "Problem Solving."
2. "Outside the box" thinkers.
3. Self-motivated individuals who like to apply themselves and take pride in their own work.
4. Demonstrated strength in communicating and working with others.
5. Enthusiastic in math, science, technology. Must have passion in knowing how things work. Minimum Proficiency in Data Structure in programming.
6. Most roles require proficient programming experience in C or C++. Prefer proficiency in basic Data Structure in programming. (May receive training if you have only Java and Python experience if you are considered to be an excellent candidate.
7. Possess excellent spatial and analytical thinking skills.
8. Have demonstrated strength in communicating and working with others.
9. Self-motivated individuals who love to learn, take pride in your own work.

***** BIG PLUS for instructors ***:**

*** Pursuing education in Master degree with engineering/math undergraduate major.

*** Special Note: Those who desire going into Education with STEM focus are highly encouraged to apply. Experience working in SR will gain you a competitive edge .

TYPICAL SCHEDULE FOR INSTRUCTORS/ASSISTANTS:

Part time in Summer (July to August)

- May choose one to eight weeks from July to August
- Mon to Fri: 8:30am to 12:00PM or 12:00 to 3:30 pm

Part time during regular school terms (September to June)

- Weekly one to six 2-hrs classes.
- Friday or Saturday or Sunday.

IV INSTRUCTORS / ASSISTANTS POSITIONS DETAILS

IV.1 WEBOTS ROBOTICS SIMULATION INSTRUCTOR FOR GR. 8-12

*** DESCRIPTION ***

1. Lead instructor for a class of 4 to 8 students programming in C/C++ in Webots.
2. May be assigned to various group based on your skills. Grade 7 to 8 (typically age 12 to 13) and/or Grade 9+ (typically age 14 to 17) (depending on your experience).
3. May use your own lesson plan or use Storming Robots' lesson plan - this will be at SR's administration discretion.

*** SPECIFIC QUALIFICATIONS ***

1. Demonstrate high proficiency in Webots Simulation environment.
2. Demonstrate excellent experience in C/C++ programming in Webots environment.

*** Compensation ***

Offer competitive compensation.

Wages: US\$40 to US\$80 per 2-hr class - Depending on your experience.

IV.2 ROBOTICS WITH ARDUINO (PROGRAMMING IN C/C++) INSTRUCTOR

*** DESCRIPTION ***

1. Lead instructor for a class of 4 to 8 students.
2. 2 separate groups - Gr. 5 to 8 or Gr.8 to 12.
3. Projects-based classes with Arduino platform.
4. Possess high proficiency in Electronic concepts to additional peripherals, from fundamentals in digital vs analog signals, voltage divider, to working with I2C devices.
5. Work with hands-on open-ended challenges with students, not traditional full-lecturing, nor tutorial.
6. May also work with competitive groups.

*** SPECIFIC QUALIFICATIONS ***

1. Must be highly proficient in Arduino or equivalent microcontroller platforms.
 2. Must demonstrate proficient programming experience in C/C++ or equivalent.
 3. May consider High School Gr. 11+ individuals who demonstrate exceptional programming and robotics skills..
 4. Have robotics experience with Arduino-C .
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5. MUST have experience working with students from Gr. 5-8, or 8-10, depending on what you are qualified for.

***** Compensation *****

Wages: US\$32 to US\$80 per 2-hr class - Depending on your experience.

Required courseware is provided for those who are not seasoned instructors. For an exceptional seasoned instructor with strong technical background, SR will consider higher compensation..

IV.3 COMPUTER SCIENCE INSTRUCTOR FOR GR.8-12

***** DESCRIPTION *****

1. Lead instructor for a class of up to 8 students in our Algorithms in C/C++ - Level B and/or I. - (See our [Syllabus](#) regarding Levels)..
2. Classes are instructor-led, but allow self-paced. That means, students may progress at various pace.
3. Will need to guide students how to write effectively and efficiently in C.
4. Foster computational thinking, analysis, proper trouble-shooting habits, not trials and errors.
5. Must review all programs written by students. Guide them to rewrite until work is deemed efficient.
6. Will use the book: C Programming: A Modern Approach 2nd Edition by K.N. King - ISBN-13: 978-0393979503 . (See our [Syllabus](#) regarding Levels).

** Will receive training if deemed as good candidate.

***** SPECIFIC QUALIFICATIONS *****

- 1) Must demonstrate excellent programming skill with C or C++, computational thinking and analytical thinking skills.
- 2) May consider High School Gr. 11+ individuals who demonstrate exceptional programming skills.

***** COMPENSATION *****

Wages: US\$40 to US\$80 per 2-hr class - Depending on your experience.

IV.4 ROBOTICS WORKSHOP OR COMPUTER SCIENCE ASSISTANT

***** Description *****

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1. Similar to described above, and assist the instructor to maximize learning for the students.
 2. Will receive paid training if we deem you are an excellent candidate.
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***** Qualifications *****

1. 3.5+ Secondary School GPA, or 3.0+ College GPA;
 2. Must be highly proficient in Algebra and Trigonometry;
 3. Have robotics experience with one of more of these platforms: Mindstorms-RobotC or Vex-C/C++, or Arduino-C ;
 4. Must be proficient in programming (e.g. control structure and array) - equivalent to AP CS -A - score 5 level.
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***** COMPENSATION *****

Wages: US\$28 to US\$32 per 2-hr class - Depending on your experience.

IV.5 COMPETITIVE MATH TUTOR - GR. 6 TO 8

***** DESCRIPTION *****

1. Must have multiple years experience in competitive Math such as MathCount, AMC, AiME, etc.
 2. Must be passionate in analytical capacity.
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***** SPECIFIC QUALIFICATIONS *****

1. Possess competitive Math experience
-

V TECHNICAL COURSEWARE WRITER

***** DESCRIPTION *****

- 1) Responsible for working and communicating with the Director and instructors to write and edit high quality applications-based, and levels-based projects. Work will include writing, revising, and improving content and alignment.
- 2) Attend to detailed work assigned by or for the director to develop an appropriate style.
- 3) Occasional meeting is required to ensure work is on-track and meet criteria.
- 4) Will work by contract-based agreement.
- 5) Using Microsoft Suite such as publisher and/or Word for editing.
- 6) May consider telecommunication **ONLY** with strong recommendation from your references.

***** Qualifications *****

FOR BOTH CURRICULUM WRITER/EDITOR AND WEB CONTENT EDITOR:

- 1) Must possess a strong command of content knowledge, excellent writing skills.
- 2) Have Strong communication skills and ability to learn from feedback are also required.
- 3) Must demonstrate good writing and organization skill.
- 4) MUST be fluent in using Microsoft Word, Publisher to create professional documents.
- 5) A self-learner and self-starter.
- 6) Require proof of work from your past experience.

FOR ONLINE WEB CONTENT EDITOR:

- 1) Experience in website development is a must.

***** PLUS *****

- 1) Strong high school Algebra and Geometry background.
- 2) Knowledge in Graphic design capabilities, Computer Programming, lucid-chart.

***** Compensation *****

Wages: To be discussed

***** Typical Schedule *****

Flexible but consistent..

VI. OFFICE STAFF

VI.1 PROGRAMS COORDINATOR

***** DESCRIPTION *****

1. Assist the Director to:
 - 1.1. manage, coordinate and oversee center programs, monitor and approve program expenditures. ...
 - 1.2. Schedule program work, oversee daily operations, coordinate the activities of the program and set priorities for managing the program.
2. General office duties such as but not limited to: keep the office organized and presented in a professional level, filing, e-mails, answering phones, etc.
3. Responsible for registrations, monthly reports, etc.
 - 3.1. Manage the office clerk to ensure office work are done properly, including but not limited to: maintain terms calendar, hardware inventories list. Keep bulletin board organized and updated.
 - 3.2. Communicate with customers who are parents, schools administrators, school staffs, etc.
 - 3.3. Keep the office organized.
4. Write up small articles for Communication & Social Media: Produce short newsletter, flyers, etc.

***** QUALIFICATIONS *****

1. MUST be detail oriented and love to keep things organized.
2. Proficiency in Microsoft Office, e-mail, and feel very comfortable with using internet and social media.
3. Self-starters who like to apply themselves.
4. Effective verbal, written communication skills. Must have excellent people skills.
5. All applicants will be given a timed excel worksheet to verify their skills in Excel and MS Word.

For highly qualified individuals, we may consider a full-time position.

***** COMPENSATION *****

Wages: \$20 to \$35 per hour depending on experience.

***** TYPICAL SCHEDULE ******

Part time positions:

May choose one or more of the time segments (depending on availability):

In Summer (July to August)

Mon to Fri: 8:30am to 3:30 pm; and/or 3:30 to 6:00 pm

Saturdays: 1 to 4 pm

Part time during regular school terms (September to June) - *Maximum 20 hours per week.*

⊕ Tue to Fridays: 10am to 2pm or 4pm to 7pm

⊕ Saturdays and/or Sundays: 10am to 6pm

VI.2 OFFICE WORK CLERK

*** DESCRIPTION ***

1. General office duties such as but not limited to: keep the office organized and presented in a professional level, filing, e-mails, answering phones, etc.
2. Process registrations, billing, monthly reports, etc.
3. Facility: maintain terms calendar, hardware inventories list. Keep bulletin board organized and updated.
4. Communicate with customers who are parents, schools administrators, school staffs, etc.
5. Write up small article for Communication & Social Media: Produce short newsletter, flyers, etc.
6. Keep office organized.

*** QUALIFICATIONS ***

1. MUST be detail oriented and love to keep things organized.
2. Proficiency in Microsoft Office, e-mail, and feel very comfortable with using internet and social media.
3. Self-starter who like to applies themselves.
4. Effective verbal, written communication skills. Must have excellent people skills.
5. All applicants will be given a timed excel worksheet to verify their skills in Excel and MS Word.

*** COMPENSATION ***

Wages: \$15 to \$20 per hour depending on experience.

*** TYPICAL SCHEDULE ****

⊕ Same as the program coordinator
