

4-AXIS CNC MILLING INSTRUCTOR

ORGANIZATION OVERVIEW

Generator Makerspace is a vibrant community workspace and innovation hub located in Burlington, Vermont. Our mission is to empower individuals to explore, create, and collaborate through access to tools, technology, and education. We provide a supportive environment for makers, artists, hobbies, and entrepreneurs to turn their ideas into reality.

ABOUT THE ROLE?

Generator Makerspace is seeking an experienced 4-Axis CNC Milling Instructor to lead our tool training workshops. This foundational course covers the safety protocols and basic operations of our Roland 4-axis milling machine, introducing students to the exciting range of industrial and creative applications this technology enables, from product prototypes and replacement parts to sculptures, figurines, and 3D art.

Trainings run approximately 4 hours, and are offered every other month. The ideal candidate is safety-conscious, experienced with CNC milling workflows, and enthusiastic about teaching beginners in a hands-on environment.

Notice: The Roland 4-axis milling machine can carve pieces with a maximum workpiece size of approximately 1.75 × 1.75 × 10 inches.

DUTIES AND RESPONSIBILITIES

- Lead 4-hour tool training workshops for beginner students
- Demonstrate safe setup, operation, and shutdown of the Roland 4-axis milling machine
- Guide students through converting an STL file for use in Roland's SRP Player software
- Instruct students on importing files into the machine and running a print job
- Teach students how to properly size and prepare uncut material before running a job
- Introduce students to compatible materials, including wood and wax
- Instruct students on how to clean and perform basic maintenance on the machine
- Enforce safety protocols and ensure proper use of PPE
- Maintain a clean and organized space before, during, and after sessions

DESIRED SKILLS & KNOWLEDGE

Tools & Equipment

Candidates should be proficient with the following, or willing to learn:

- Roland 4-axis milling machine (operation, setup, and basic maintenance)
- Roland SRP Player software (file import, toolpath setup, and job execution)
- STL file preparation and conversion for CNC workflows

- Material selection and workpiece sizing for milling applications

Notice: *Familiarity with the tools and software specified is preferred but is not critical. Training will be provided to bridge any gaps in experience.*

Techniques & Processes

- STL file conversion and import into SRP Player software
- Workpiece sizing, fixturing, and preparation before running a job
- Job setup and execution: toolpath review, material selection, and run monitoring
- Material knowledge: properties and suitability of wood and wax for milling applications
- Post-job cleanup, chip removal, and machine maintenance

Safety & Studio Knowledge

- Safe CNC operation: machine startup, shutdown, and job monitoring
- Proper PPE: eye protection, hearing protection, and dust management
- Understanding of workpiece size limitations (maximum approx. 1.75 × 1.75 × 10 inches)
- Familiarity with Generator's incident report and maintenance request process
- Ability to perform thorough cleanup and return the studio to a safe, ready condition after each session

***Interested applicants are invited to contact education@generatorvt.com.** Please share any relevant jewelry and teaching experience and a phone number.

Generator is committed to building a work community that is inclusive and represents a vibrant diversity of background, experience, perspective and thought. Candidates across all markers of identity (age, race, gender, ability, communication styles, etc.) are highly encouraged to apply.