

Hardware Engineer

ARC Student Project - General Purpose - Volunteering Position

The Autonomous River Cleanup (ARC) is a student-led initiative supported by the Robotic Systems Lab with the goal of removing riverine waste. By joining as a **Hardware Engineer**, you will contribute to ARC's overall progress by designing, building, and testing mechanical systems in different areas of the project wherever needed. In your position, you will mostly do several small hardware tasks and projects. These tasks range from small hardware adaptations of existing systems to designing new hardware parts, such as mounting structures for electronics. Your position might also include doing practical work on testing sites.

Your role:

During your time at ARC, you will do the following:

- Designing and integrating mechanical parts and mechatronic systems
- Prototyping and testing your designs
- Doing hands-on and physical work at the robotic sorting container or other ARC projects

Your skills and background:

Ideally, you already have the following skills or are eager to learn them:

- Basic skills in computer-aided design (CAD), e.g. NX, SolidWorks, etc.
- Familiarity with hardware design principles, product design, and 3D printing
- Familiarity with basic workshop tools

You do not need to be an expert yet, but you are willing to become one!

Expectations:

As a team member, we expect you to:

- Be proactive and take responsibility for your work
- Participate in team meetings and workshops
- Take ownership of your projects and tasks
- Collaborate closely with your team

What do you receive?

By participating in this unique opportunity, you will:

- Expand your knowledge and gain hands-on experience on a project outside of the classroom
- Establish and grow your professional network and engage with people from academia
- Be part of a friendly community, grow as a unit, and build friendships
- Do something meaningful for our natural environment
- Receive support and guidance from current team members
- Kickstart your career!

Project start: September 2024 (Start of Autumn Semester 24)

Duration: 2 semesters

Working hours: up to 8 hours/week

Target group: Bachelor's and master's students

Location: Zurich

Please be informed that your work, as part of a student project, will be entirely voluntary and does not offer any payment. However, you will be able to prove your practical experience in your CV and have access to a vast infrastructure to realize your ideas.

Interested? Any questions? Get in touch!

We look forward to hearing from you! For the application, please specify why you are interested in the project and include your CV. Please reach us via our arc@ethz.ch.