



Drones to combat dengue: open position as mechanical engineer

Worldwide, an estimated 390 million human dengue infections occur every year. Over the last three years, WeRobotics has been pioneering the use of drones to combat such mosquito-borne diseases. We developed an aerial mosquito-release system that allows to store, dose and release friendly mosquitoes in a fully automatic manner. We field-tested our prototype solutions in Brazil and Fiji, and showed that aerial mosquito-release is an

efficient and viable method to fight dengue, Zika and chikungunya.

Job description

We are looking for an exceptional mechanical engineer to help us on:

- Contributing to design and implementation of new key features for the mosquito release system
- Building functional prototypes and lead rigorous testing and development efforts
- Interfacing with technologic and scientific partners to ensure compatibility with both drone platforms and biological requirements of mosquitoes
- Optimizing production process and setup quality control system
- Ensuring efficient manufacturability by applying design for manufacturing/assembly principles
- Contributing to process, test plan, tools and workshop improvement and related documentation

Your qualification

- MSc or BSc in mechanical, robotics, microtechnics engineering or equivalent
- 3+ years of industry experience in mechanical engineering or equivalent
- Strong experience rapid prototyping such as 3D printing, laser cutting, CNC, etc.
- Strong experience with mechanical testing and quality controls
- Relevant experience in 3D CAD using Autodesk and other software suites
- Experience/knowledge of reliability analysis or statistical testing
- Ability to work in a rapidly-evolving and dynamic environment
- Fluent in written and spoken English (level C1)
- Swiss or EU passport or another permit that allows you to work in Switzerland

Ideally you have

- Experience with drones in professional or recreational setting
- Know-how and understanding for electronics as well as embedded software
- Strong motivation for tech for good applications
- Excellent communication and collaboration skills
- High personal work standards (clean design, test, documentation)

What we offer

- Meaningful work in a dynamic startup environment
- Fair compensation and flexible working hours
- Cozy office in the heart of Bern
- Possibility of field trips

- Supportive work climate with a highly motivated team

WeRobotics is an Equal Opportunity Employer. We do not discriminate on the basis of race, religion, color, sex, gender identity, sexual orientation, age, non-disqualifying physical or mental disability, national origin, veteran status or any other basis covered by appropriate law. All employment is decided on the basis of qualifications, merit, and business need.

About WeRobotics

WeRobotics is an international NGO that is committed to creating a future where local communities can use robotics for social good. We are building a global network of Flying Labs, where people accelerate and scale the impact of their humanitarian aid, global development, public health and environmental protection efforts using appropriate robotics solutions. More information on WeRobotics can be found at <http://werobotics.org>.

Location: Bern, Switzerland

Type of contract: Full-time

Start date: as soon as possible

Please send your complete application, including a cover letter and CV, to jurg@werobotics.org.