

## Drone Robotics Engineer (100%)

Worldwide, an estimated 390 million human dengue infections occur every year. Over the last three years, WeRobotics and the World Mosquito Program have been pioneering the use of drones to combat such mosquito-borne diseases. We developed an aerial mosquito-release system that allows us to store, dose and release bacteria-infected mosquitoes in a fully automatic manner. We field-tested our prototype solutions in Brazil and in Fiji, demonstrating that aerial mosquito-release is an efficient and viable method to fight mosquito-related diseases such as dengue, Zika and chikungunya.

### Job description

We are looking for an experienced drone robotics engineer to take the lead on:

- Integration of release devices on a long-range VTOL drones
- Design and implementation of new key features for mosquito release systems
- Functional prototype building and rigorous testing
- Communication and facilitation with technology and scientific partners to ensure compatibility between drone platforms and biological requirements of mosquitoes
- Transfer technology to local experts in Africa, Latin America and Asia/Pacific

### Qualifications

- MSc in robotics, mechatronics or mechanical engineering
- 3+ years of industry experience in robotics engineering,
- Proven experience in the drone industry or experience with drones in a professional setting (track record with VTOL and vector-control integration a plus)
- Experience in light-weight and aerodynamic design of components in line with project needs
- Proven experience in mechanical design for robotic applications
- Expertise with Autodesk Tool Suite and specifically Autodesk Inventor
- Proven experience with rapid prototyping such as 3D printing, laser cutting and CNC
- Operational experience with drone projects in both an international and development setting in Africa, Latin America and/or Asia/Pacific
- Operational experience with technology transfer in both an international and development setting in Africa, Latin America and/or Asia/Pacific
- Ability to work in a rapidly-evolving and dynamic environment
- Fluent in written and spoken English (C1), German (C1), French (C1)

### The ideal candidate meets all qualifications and additionally has:

- Remote pilot license for multicopter and VTOL drones
- 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)

### About WeRobotics

WeRobotics is an international nonprofit organization committed to creating a future where local communities can use robotics for social good. Our mission is to shift power from the global back to the local by ensuring that local experts with local knowledge and lived experience have the leadership



opportunities they seek to implement technology for good projects themselves. This inclusion is key to accelerating the positive impact of aid, health, development and environmental efforts. For more information: <http://werobotics.org>.

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.

**Location:** Berne, Switzerland

**Type of contract:** Full-time

**Start date:** Ideally by May 2021, latest by July 2021

Please send your complete application, including cover letter and CV, to [hr@werobotics.org](mailto:hr@werobotics.org).