



De-Ice

DE-ICE TECHNOLOGIES – JOB OPENING

Our Company

Airplane de-icing is a messy, chemical-heavy process that inevitably delays flight departures during the winter season and costs over \$13B per year worldwide. According to John Owen, co-founder of JetBlue and investor at De-Ice “The best way to save money for an airline is to run a reliable, on-time schedule, and current-state de-icing makes this impossible.” De-Ice Technologies is an MIT spin-out that has developed and patented a non-invasive electric solution that replaces chemical-based de-icing. De-Ice has been working with regulators since its inception and is partnering with a legacy North American airline to bring their technology to market in 2023. The technology has additional applications in the automotive, energy, and space industries. De-Ice closed their Series A financing, which is currently being used to bring the technology to market.

The Position – Summer Mechanical / Aerospace Engineer

The Summer Mechanical / Aerospace Engineer will be responsible for working on De-Ice’s proprietary device with a focus on novel technology and product development, and with a view to launch the product in the aerospace industry. We are targeting fixed- and rotary-wing aircrafts, as well as spacecrafts. They will work with an interdisciplinary team of talented engineers reporting directly to the CTO.

The ideal candidate will have a strong mechanical engineering background, and experience designing, prototyping, and testing novel devices. Specific duties include, but are not limited to:

- Research and development of novel technology and engineering solutions
- Design, build, and test lab-scale, pilot-scale, and real-scale prototypes
- Creation of detailed engineering product designs, including electrical and mechanical systems
- Interdisciplinary work to reach solutions that satisfy both mechanical and electrical requirements

Current projects in the mechanical team include detailed designs for aircraft integration, thermal and mechanical analysis of electronics packaging, thermal design of critical electronic components, and experiment design for aircraft component test samples, among others.

Qualifications

- Recent graduate from a PhD or Master’s program, or enrolled in such a program
- Hands-on experience with design, fabrication, and testing of lab-scale prototypes
- Proficiency with Solidworks, CATIA, or other CAD software required
- Relevant professional or research experience with mechanical design, computer aided design, and thermal modeling preferred
- Experience with or interest to learn fundamental electrical engineering topics preferred
- Energetic, driven, creative, and able to respond to the unforeseen challenges and conditions which are characteristic of an early-stage venture

Majors Considered

- Preferred: Mechanical Engineering, Aerospace Engineering

Our Culture

De-Ice is a flat organization run by engineers and physicists. We value “smart work” over hard work and believe creative thinking is just as important as analytical prowess. We strive to balance fundamental analysis with hands-on, practical lab work. We believe in empowering engineers to allow them to solve the hardest problems and therefore value efficient problem solving and servant-leadership. We are looking for people who share our passion for hardware, the aerospace industry, and building companies.

De-Ice is an equal opportunity employer and does not discriminate on ground of race, gender, age, or sexual orientation. De-Ice offers competitive compensation, including salary, stock options, and benefits.

Interested candidates should contact Ruben Toubiana at ruben@deice.io with a resume enclosed.

JOB OPENING – GRADUATE SUMMER MECHANICAL / AEROSPACE ENGINEER