Manufacturing Engineer in Soft Actuators

The Center for Artificial Muscles has been settled up in Microcity, the EPFL Microtechnology antenna in Neuchâtel, Switzerland. This Center, founded by the “Werner-Siemens Stiftung” is developing biocompatible soft artificial muscles for cardiac, urological and face reconstruction applications in order to become one of the key place in the next decade to propose a credible alternative to current cumbersome devices. This multidisciplinary project requires knowledge in soft actuators, in particular in dielectric elastomer actuators (DEA), and high-voltage electronics and biomedical environment.

Main duties and responsibilities include

- Support the manufacturing of a high mechanical power soft actuator based on dielectric Elastomer Actuator (DEA) including cleanroom process.
- Insure the repeatability, reproducibility and reliability of the device with mechanical and electrical tests
- Work in close collaboration with the team’s members in the development of innovative actuators
- Technical achievements and reporting

Your profile

- HES of EPFL Engineer in microengineering, mechanics, electrical engineering or related fields.
- Experience on biomedical innovative soft actuator (Dielectric Elastomer Actuator) is a must.
- Strong experimental skills: prototyping, cleanroom process, test bench development.
- Knowledge on FEM, CAD, Matlab.
- Must have excellent organization skills and ability to handle multiple tasks
- Creative, highly motivated, willingness to acquire new skills.
- Excellent verbal and written communication skills (English).

We offer

- A fascinating environment mixing engineering and biomedical
- A young, dynamic and interdisciplinary team
- A collaboration with strategic external partners and advanced scientist

Competitive salary in accordance to level of expertise
Candidates should send their CV, letter of motivation and summary of their previous projects to yoan.civet@epfl.ch

http:imt.epfl.ch