

Postdoc Position on 3D printing of electronics on conformal surfaces

(Date: June 20, 2018)

Duration: 1 year and subject to renewal for another year based on performance

Location: Department of Mechanical Engineering, University of Maryland (UMD), College Park, MD 20742

Supervisor: Dr. Siddhartha Das (UMD)

Project Description: The current technologies of 3D printing have huge potential in the domain of printing flexible electronics and direct write printing on curved surfaces. In this project we want to explore such technologies to print electronics on curved surfaces. We would experiment with various kinds of printing solutions for the fabrication of printed electronics onto arbitrary non-flat surfaces. We would test the feasibility of printing with various kinds of multi-axis printing platforms like syringe/extrusion printing, aerosol jet printing etc. The final goal is to create printed hybrid electronic circuits that can eventually lead to enhancement in area such as of wearable technologies. It will also enhance the possibilities of printing electronics on conformal surfaces widely found in the aerospace and automotive industry.

The person will be working using 3D printing facilities at UMD.

Desirable qualifications: The candidate should have a PhD during the time of application. Previous experience with 3-D printing and knowledge about fabrication of electronic systems are desirable. The candidate should be ready to take up leadership roles in different challenging tasks.

Salary: \$50,000 per annum

Benefits: As per the benefits of an employee at UMD.

Starting Date: Immediate

Selection Procedure: Based on the qualifications of the applicants, interviews will be conducted in person/online depending upon the persons' location. Final decision will be completely in the hands of the selection committee.

Application Procedure: Submit applications by email with subject "Postdoc position on 3D printing of electronics" along with CV, transcripts/degree certificates. CV should contain details of publications, achievements etc.

Contact Persons:

Siddhartha Das (sidd@umd.edu)