A postdoctoral position is available in Dr. Stella Alimperti’s Tissue-On-A-Chip Lab within the American Dental Association Foundation (ADAF) at National Institute of Standard and Technology (NIST) and National Institutes of Health (NIH) in DC area. The ideal candidate will be located at National Human Genome Institute (NHGRI) at NIH and will have access to NIST/ADAF facilities. Our research is focused on developing novel in situ and ex vivo systems with potential translation into new therapies for bone diseases. We use microfluidic systems (organ-on-a-chip technology), 3D bioprinting, synthetic biology tools and advanced microscope techniques to study the pathophysiology of bone. In general, the goal of our lab is to develop a new generation of disease models for drug testing and of 3D printed scaffolds for in vivo applications. These models will improve our understanding of how different factors influence bone pathogenesis and evaluate new biomarkers and drugs involved in rare diseases, cancer and bone regeneration.

The ideal candidate will have experience in biology area, stem cells (iPSCs, MSCs, etc), genetics, molecular biology, animal models, and microscopy.

A PhD in a related field such as biomedical engineering, cell biology and medicine is required.