

Careers in Fluid Mechanics & Microfluidics Modeling at Veryst Engineering

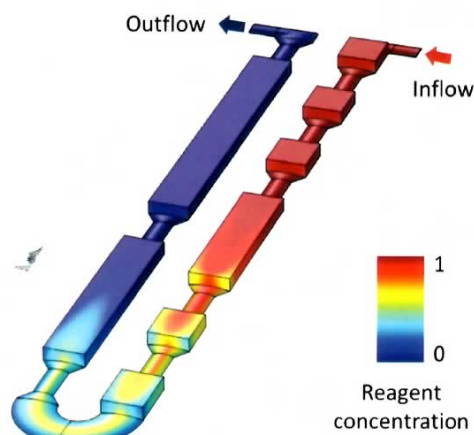
Job requirements

- Ph.D. or Ms. in physical mathematics, fluid mechanics, microfluidics, mechanical engineering, physics or equivalent
- Strong academic record and references necessary
- Strong analytical and creative problem-solving skills
- Effective use of different modeling tools to efficiently solve problems, improve design or processes
- Courses taken in fluid mechanics, partial differential equations, vector calculus, and linear algebra is required
- Courses taken in heat/mass transfer, microfluidics, surface tension & wetting, dynamical systems, numerical analysis, and real & complex analysis is desirable
- Experience with COMSOL Multiphysics, SolidWorks, MATLAB, SimScape/SimHydraulics, Mathematica, and/or STAR-CCM+ is desirable
- Engaging verbal/written communication skills and ability to comfortably interact with people from diverse backgrounds
- Technical acumen & design capability to prepare presentations, reports, and publications that clearly communicate complex ideas, designs, results
- Availability for some (~once per month) domestic travel
- Some industrial experience would be a bonus
- Ability to perform fluidic experiments would be a bonus

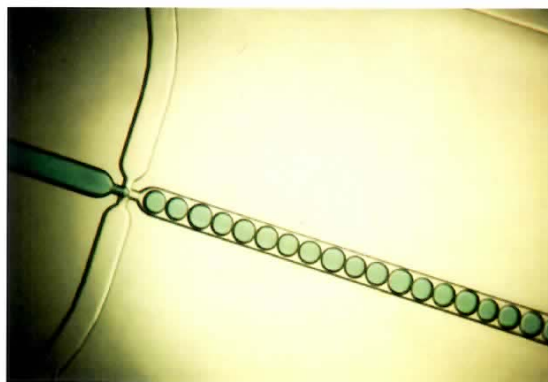
In addition to fluid mechanics & microfluidics modeling, experience in any of the following areas is desirable

- Micropumps and valves
- Heat transfer, species transport, mixing
- Surface tension and wetting phenomena (e.g. Marangoni & curvature pressure flows, wicking, capillary valves)
- Multiphase flow, droplets, nebulization
- Solid & continuum mechanics, fluid-structure interaction
- Acoustics, electro-chemistry, low frequency electromagnetics

Along with competitive base salary and 401k, there is potential for performance-based rewards. Veryst provides generous health benefits and competitive paid vacation/holiday time. For strictly confidential consideration, please send cover letter & CV (containing GPA, list of relevant courses taken, list of references) to contact@veryst.com.



Flow and transport in a microdevice for diagnostic and genomic applications.



Droplet microfluidics. The ability to model droplet-based microfluidic systems offers a sound design tool to complement the development of a wide range of products in the biosciences.