



AUTODESK® FORGE

Partner Highlight: CCTech

Products/services [simulationHub](#), a CFD simulation platform

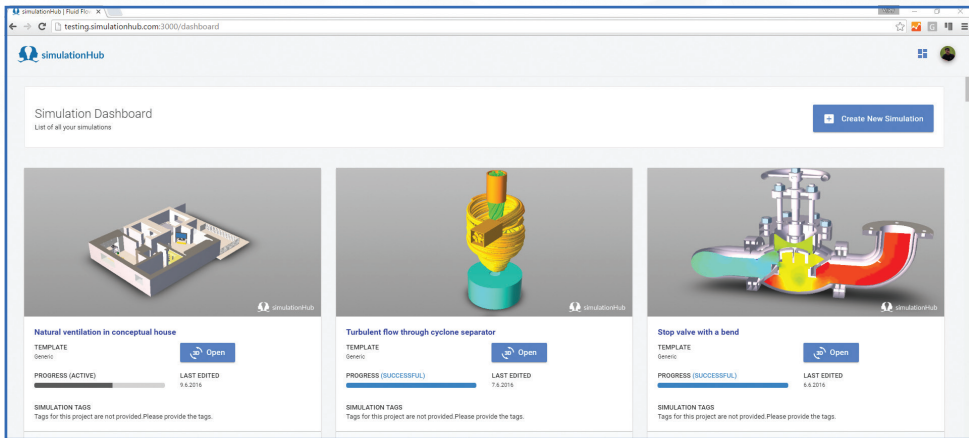
Industries served AEC and Manufacturing

Headquarters Pune, India

Website [cctech.co.in](#)



simulationHub

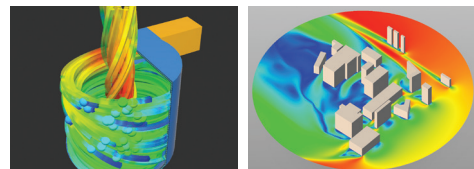


Who We Are, What We Do

CCTech offers a cloud-based computational fluid dynamics (CFD) simulation platform, called simulationHub, as well as 3D app/plugin consulting services. simulationHub enables customers to analyze fluid flow and airflow from a web browser. simulationHub addresses the two principal challenges when using CFD simulation early in the design process – complexity and compute intensiveness. Because the browser-based workflow is simple to complete and the app runs the simulation in the cloud, this frees up your machine for other tasks.

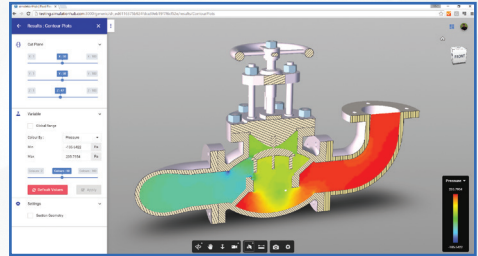
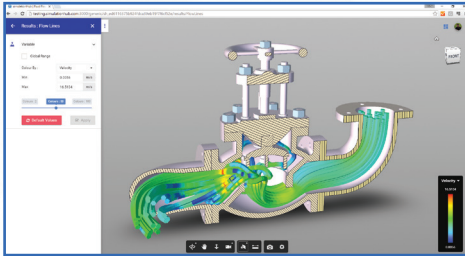
Why Forge? Why Now?

We were looking for a reliable and scalable visualization component for simulationHub. The Forge Viewer was the best option, since we could offer users the same look and feel as standard CAD software, to which they were accustomed. Since we adopted the Viewer in 2014, we've seen significant growth in Forge's features and support, justifying our early decision.





AUTODESK® FORGE



Our Work with Forge

For simulationHub, we've been making extensive use of the Viewer and Forge Design Automation API. We added flow visualization modules to show air and fluid flow animations in the context of 3D models in a web browser. We are using the Design Automation API to make required modifications in user models.

We've also developed an Autodesk Fusion 360 Control Valve Performer app, powered with simulationHub Web Service. We created it as a Fusion in-app integration, with an independent simulation workspace. The app enables control valve designers to obtain a performance curve in less than 15 minutes, while simultaneously performing more than nine CFD simulations in the cloud. (The app is now available on the Autodesk App store at an early invitation price.)

Forge Impact and Benefits

The Viewer gave simulationHub reliable, scalable, simple to use, and fast visualization capabilities. Beyond that, the Forge platform brought us credibility, which has helped us quickly enter the buildings market. Also, new tools we develop using Forge—such as our

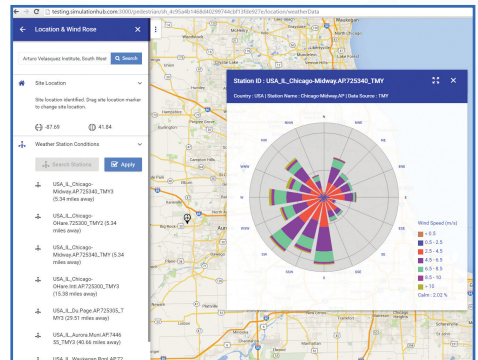
upcoming Pedestrian Comfort Analysis app—should be easy to learn, and use, by anyone familiar with Autodesk software.

Lessons Learned

Get trained on Full Stack Development, especially if you are moving from desktop development.

Looking Ahead

We want to make CFD omnipresent by democratizing high-end CFD simulations technology. Every designer should be able to validate designs for fluid and thermal performance—easily and affordably.



To learn more about Autodesk Forge, visit forge.autodesk.com