Intern #1
Simulation as a Service front end engineer

We are building a cloud resident platform to provide simulation as a service to our clients for both training and solving engineering problems.

The front end is a web application that makes REST calls to the platform service cluster. The front end engineer will help code the highly responsive web application in leading edge technologies like AngularJS using REST calls, Websockets and SSE channels.

The ideal candidate would have a solid grounding in JavaScript, HTML5 and have vigorous interest in leading edge web technologies. Working knowledge of Git, Bootstrap, AngularJS and the Play Framework or Node.js would be advantageous. Core understanding of HTTP and TLS is important for this position.

Intern #2
Simulation as a Service back end engineer

We are building a cloud resident platform to provide simulation as a service to our clients for both training and solving engineering problems.

The SaaS platform is a distributed cloud management application that is designed to be highly scalable and resilient with respect to failures in the underlying cloud infrastructure. The engineer will help develop, test and deploy the platform implementation.

The ideal candidate would have a solid grounding in either Java or Scala and an interest in functional programming and distributed systems. Experience or interest in asynchronous message passing frameworks like Erlang and Akka would be a bonus. Working knowledge of RESTful web services would be advantageous. Other technologies in use include Cassandra and distributed file systems.
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Devops engineers develop automation code for the SaaS platform. Chef cookbooks are used to define machine images. The platform transforms the Chef cookbooks to machine templates that are used as source for platform simulation guest clusters. The platform provisions and manages the guest machines.

The ideal candidate would have a solid grounding in system administration and automation for both Linux and Windows as well as experience with Cloud IaaS API’s. Working knowledge of programming on the JVM in Scala or Java is an advantage. Experience with Chef and Ruby is a bonus.