

# ABSTRACT

This report aims to show the turbulence flow and the temperature variation inside the combustor using the software salome and OpenFOAM . It also aim to improve the efficiency of the combustor .combustor is a component of the gas turbine which is used to burn fuel and increase the velocity of the air.This represent the imple geometry but it can given accurate result

## PROBLEM STATEMENT

For a steady state turbulent flow, analyze the airflow over combustor geometry (fig 1 & 2) (design the dimension). Use a suitable turbulence model. Calculate the temperature variation.Now change the proportion of the fuel and air and compare the efficiency for these composition.

