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# Cloud Bursting and Cube Processing

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## Computer and Information Science Undergraduate Project Topics and Ideas

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***Title:***

Cloud Bursting and Cube Processing

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***Difficulty:***

Hard

***Specialization:***

Computer Architecture

***If other, please specify:***

***Most Appropriate Course:***

Project II

***Brief Description:***

Build and configure cloud bursting solutions

***Number of students needed:***

2

***Outcomes and Deliverable:***

Implemented and tested cloud bursting solutions

***Skills Required:***

Computer Architecture, Python Programming, Network Infrastructure

***Available Resources:***

***Program Goal:***

CISC 1.4: Deploy Solution CISC 2.2: Software Platform, CISC 2.3: Networking CISC 4.1: Written Communication CISC 5.1: Collaborative Work Practices

***Student Learning Outcomes:***

1a: The student should be able to analyze a problem in a manner that facilitates the design of its solution., 1b: The student should be able to apply relevant principles of computing during their analysis of a problem., 2a: Student is able to create a formal software design based on a given

set of requirements., 2b.:Student is able to develop a software solution from a formal design specification., 5b: Ability to collaborate as an effective team member.