Postgraduate Program in Cloud Computing

University Program

Course Outline

Course Overview:

Accelerate your career with this acclaimed Post Graduate Program in Cloud Computing, in collaboration with Caltech CTME. This program features the perfect mix of theory, case studies, and extensive hands-on practice to master the architectural principles and services of the top Cloud platforms. You will learn to design and deploy highly scalable, fault-tolerant applications and develop skills to transform yourself into a Cloud professional.

This Post Graduate Program is designed for graduates in any discipline and experienced professionals from programming and non-programming backgrounds. The program is based on a Applied Learning approach that uses a combination of self-paced videos, live virtual classes, hands-on projects, and labs. Students also have access to mentorship sessions, providing a high-engagement learning experience and real-world applications to help master essential Cloud Computing skills.

At the end of this program, learners will understand the main principles of Cloud Computing and how they are implemented in Microsoft Azure, AWS, and Google Cloud Platform. This program will enable students to demonstrate their knowledge to implement use cases and configuration options for Azure App Services and AWS Application Services environments. Those who complete the program will become certified Azure and AWS Cloud Architects.

Key Features:

- Receive upto 30 CEUs from Caltech CTME
- Caltech CTME Post Graduate Certificate
- 8X higher live interaction with live online classes by industry experts
- Caltech CTME Circle Membership
- Physical Certificate from Caltech CTME (on request)
- Online Convocation by Caltech CTME Program Director
- Capstone Project in 4 domains
- Master Classes taught by Caltech CTME instructor
- 40+ Hands-On Projects with Integrated Labs
- Enrolment in Simplilearn's JobAssist
- Get noticed by the top hiring companies

About the Post Graduate Program in Cloud Computing in Collaboration with Caltech CTME

Founded in 1891, Caltech is a world-renowned science and engineering institute that marshals some of the world's brightest minds and most innovative tools to address fundamental scientific questions and pressing societal challenges. Caltech prizes excellence and ambition. The contributions of Caltech's instructors and alumni have earned national and international recognition, including 38 Nobel Prizes and nearly 60 National Medals of Science. The Institute manages the Jet Propulsion Laboratory (JPL) for NASA.

CTME is embedded in Caltech's Division of Engineering and Applied Science. Caltech CTME has a unique role to play in applying the capabilities of scientists and engineers to the challenges of today's technology-driven businesses. Caltech CTME applies executive education and professional development directly to realworld problems. Caltech CTME experts teach the tools and perspectives that elevate careers and help companies achieve their goals.

Upon completing this program, you will receive:

- Caltech CTME Post Graduate Certificate Caltech
- CTME Bonafide Certificate
- Individual Course Completion Certificate for all the Courses in the Learning Path from Simplilearn
- Program Performance Report for the Entire Learning Path in the Program
- Receive upto 30 CEUs From Caltech CTME upon course Completion
- Access to Caltech Circle Membership
- Physical Certificate with Caltech CTME Kit (On Request)

Eligibility Criteria

Those wishing to enroll in the Post Graduate Program in Cloud Computing in collaboration with Caltech CTME will be required to apply for admission
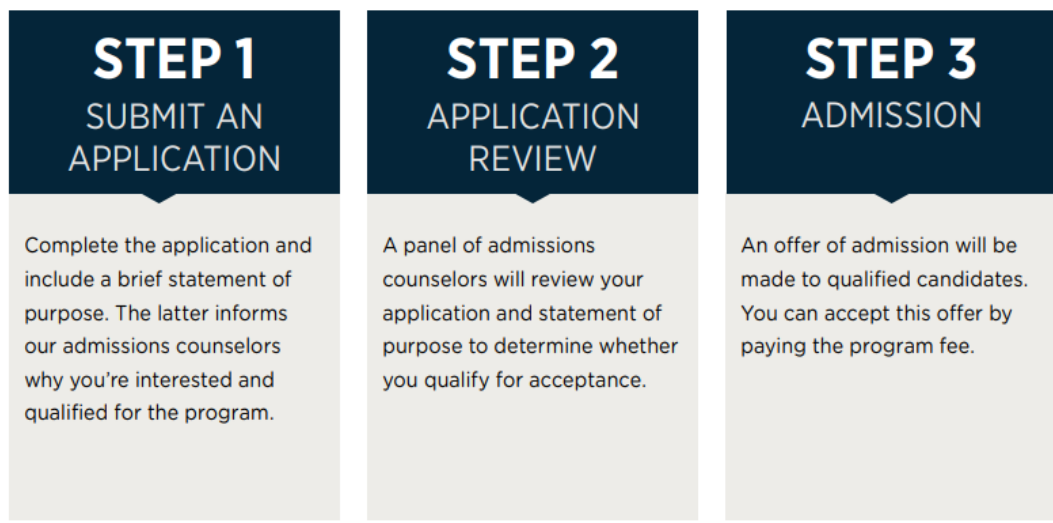
- Should have a bachelor's degree in any discipline with an average of 50% or higher marks
- May come from a non-programming background

- Do not need to have prior work experience

Application Process

The application process consists of three simple steps. An offer of admission will be made to the selected candidates and accepted by the candidates by paying the admission fee.

STEP 1 SUBMIT AN APPLICATION	STEP 2 APPLICATION REVIEW	STEP 3 ADMISSION
Complete the application and include a brief statement of purpose. The latter informs our admissions counselors why you're interested and qualified for the program.	A panel of admissions counselors will review your application and statement of purpose to determine whether you qualify for acceptance.	An offer of admission will be made to qualified candidates. You can accept this offer by paying the program fee.

Talk to an Admissions Counselor

We have a team of dedicated admissions counselors who are here to help guide you in applying to the program. They are available to:

- Address questions related to the application
- Assist with financial aid (if required)
- Help you resolve your questions and understand the program

Program Outcomes:

At the end of this Post Graduate Program, you will:

- Understand the main principles of Cloud Computing and how they have been implemented in Microsoft Azure and AWS
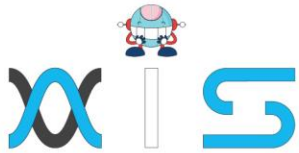
- Design an Azure app service web app by using Azure CLI, Powershell, and other tools
- Manage subscriptions, billing, and rolebased access control regarding Azure users and groups
- Manage security and identity for Azure solutions
- Implement use cases and configuration options for Azure App Services and App Service environments
- Implement AWS security and testing, and become an expert in AWS components such as S3, DynamoDB, Elastic Beanstalk, and CloudFormation
- Set up GCP account and utilize GCP services: networking, storage, content and delivery network Understand Google Virtual Machines and how to work with them
- Get an overview of AWS DMS, how the AWS Schema Conversion tool works, types of AWS Database Migration Service
- Select the appropriate AWS service based on data, compute, database, or security requirements
- Deploy, manage and operate scalable, highly available and fault-tolerant systems on AWS

Who should enroll in this Program?

This program caters to those who are hoping to enter the world of Cloud Computing or want to update their skills, as it is designed and structured to accommodate various professional backgrounds. Although there are no prerequisites for taking this training program, individuals in the following roles and disciplines are ideal for this course:

- Fresh graduates who intend to take the plunge into the Cloud job market
- Professionals with any number of years of experience working in either technical or non-technical job roles and wish to build successful careers in the Cloud world
- People working in the following roles will benefit the most from the Post Graduate

  - Solutions architects
  - Programmers
  - Cloud developers
  - Cloud software engineers
  - DevOps professionals

Learning Path:

1. AWS Solutions Architect SAA CO2
2. Microsoft Azure Administrator : AZ-104
3. Designing Microsoft Azure Infrastructure Solutions : AZ-305
4. Cloud Computing Capstone Project

(☆) Academic Master Classes – Caltech CTME

Electives:

Academic Master Classes
– Caltech CTME

Attend online interactive Master Classes conducted by the instructor from the Caltech CTME and get insights about advancements in the Cloud domain and understand why it has become important for any organization to understand and implement Cloud Computing skills to scale up.

Microsoft Certified Azure Developer Associate: AZ:204

This Azure Developer Certification training aligns with the latest (2020) edition of Azure Developer Certified Associate exam AZ-204. AZ-204 is the updated version of the existing exam for the Microsoft Azure Developer Associate: AZ-203. This exam verifies your ability to select, develop, and implement Azure Cloud technology solutions.

AWS Developer Associate

This AWS Developer Associate training builds upon the skills learned from the AWS Technical Essentials course. This course will teach you how to write code and design scalable applications, implement application security and testing, and develop expertise with key AWS components such as S3, DynamoDB, Elastic Beanstalk, and CloudFormation.
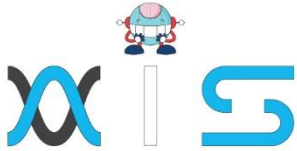
AWS Sysops Associate

This AWS SysOps training is a prerequisite to the DevOps Engineer Certification. You will learn how to migrate on-premise applications to AWS, control the flow of data to and from AWS, master the AWS management console, implement operational cost controls, and enhances your ability to leverage AWS resources and services efficiently.

AWS Database Migration

This course will demonstrate the key functionality of AWS Database Migration Service (DMS) and will help you understand how to easily and securely move databases into the AWS Cloud platform to take advantage of the cost savings and scalability of AWS.

Google Cloud Platform Architect Training

This Google Cloud Platform Architect certification program will aid you with the skills needed to advance your career in Cloud architecture and become a certified Google Cloud Architect Professional. The course covers IAM, Networking, Cloud Storage, and much more. This online GCP Architect certification course introduces you to the comprehensive and flexible infrastructure and platform services provided by Google Cloud Platform. You will learn to analyze and deploy infrastructure components, such as networks, storage systems, and application services.

AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

Learning Partners

SAS Management, Inc.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.

Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.
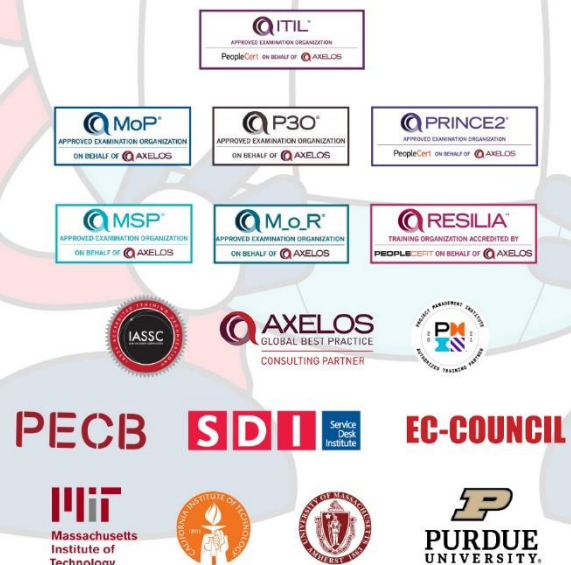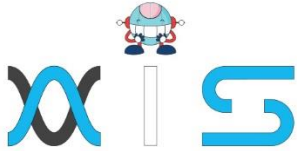
Technology Partner

Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates

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