Training-cum-Internship Program (Online) through Scaleff Systems India

This summer, **IIT Guwahati** has allowed each faculty member to supervise only a limited number of internship students. I am pleased to announce that I will be accepting a few **online internship students through Scaleff Systems India** (www.scaleffsys.in).

I sincerely thank **Scaleff Systems India** for supporting this initiative by providing **research funding** for computing equipment to strengthen the HPC Lab of the CSE Department at IIT Guwahati, offering a *modest consultancy honorarium per lecture hour*, and agreeing to provide **travel grant support** for participation in a reputed international conference.

This **intensive Training-cum-Internship Program** is designed to provide **hands-on experience and deep technical knowledge in advanced computing systems**. The program will include **around 20 hours of live lectures and 5–10 hours of interactive mentoring sessions**.

The training will focus on three specialized areas:

- **Large-Scale Multicore HPC Programming** – Parallel programming using GPU, OpenMP, MPI, and Cilk with focus on optimization for machine learning and Large Language Models (LLMs).

- **Cloud Systems Design** – Cloud architecture, deployment models, cost optimization, energy-efficient computing, edge systems, and reliability engineering using platforms such as AWS, Google Cloud, and Microsoft Azure.

- **Multicore System Design** – Architecture of Quad/Octa-core CPUs, AVX-based systems, MPSoC architectures, GPU systems, and hardware design using Verilog.

Interested students are encouraged to apply through: **www.scaleffsys.in**

Application Start: March 15, 2026
Application Deadline: April 15, 2026
Duration of Intership: May 20 to Jul 20, 2026

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