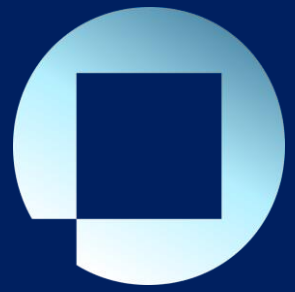
oneAPI Academic Programs

Arti Gupta

We are committed to a Vibrant Open Ecosystem for Developers



Open.

Choice.

Trust.

Focus on making our ecosystem successful:

1. Enable developer productivity on high performance open platforms
2. Foster choice and interoperability of software platforms and ecosystems for our industry
3. Built on a confidential computing platform you can trust

20 Years of Investment Across hundreds of independent projects

#1 Linux Kernel Corporate Contributor since 2007[1]

22 Centers of Excellence With top universities worldwide[2]

#1 Winner HPCwire Readers Choice Award for Best HPC Programming Tool or Technology[3]

700+ GitHub Projects

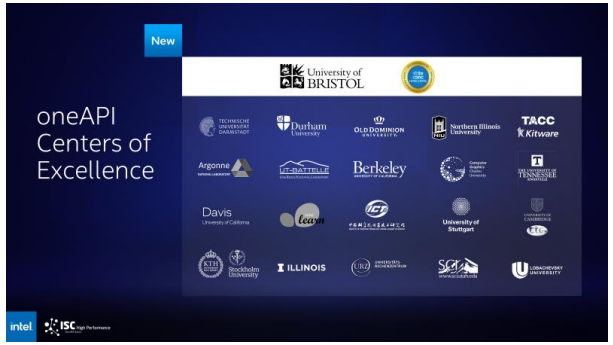
CHROME OS Leading Contributor

1- Source: https://www.linuxfoundation.org/wp-content/uploads/2020_kernel_history_report_082720.pdf
2- https://www.intel.com/content/www/us/en/developer/tools/oneapi/training/academic-program.html
3- https://www.hpcwire.com/off-the-wire/hpcwire-reveals-winners-of-the-2021-readers-and-editors-choice-awards-during-sc21/

Additional Resources: Intel.com/SoftwareFirst

oneAPI Academic programs

Centers of Excellence



Top Universities/Labs

Innovators

Professors and developers, technology enthusiasts

Student Ambassadors

Undergrad, Grad, PHD students

Professor Program

Univ faculty teaching oneAPI

Intel Engineering Support | Early access to latest Intel hardware
Intel PR and events to promote research papers, speakerships | Influence the industry direction

Enhance leadership/community reputation in industry and academia

New

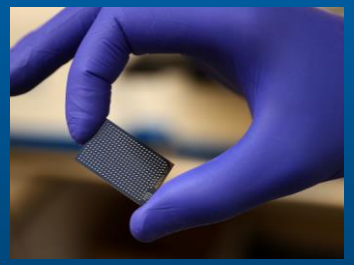
oneAPI Centers of Excellence

oneAPI Innovator Program

Professors and developers, technology enthusiasts

Access to Intel Hardware & Intel Expertise

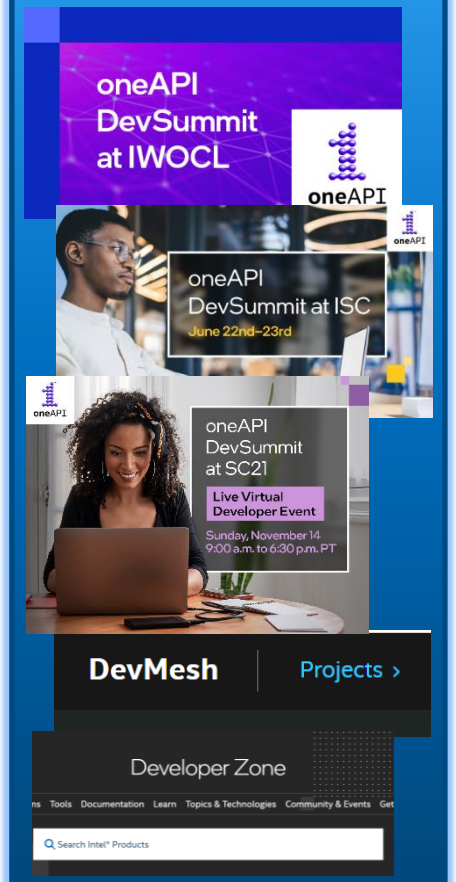
Early Experiments, Prototypes, Testing & Research



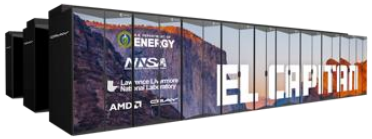
Spotlight

- Shared Projects Mesh
- Technical Articles
- Media Articles
- Event Demos
- Devs Trained
- Product Feedback

Speakerships & Demos at Major conferences and Public Events



Intel® Professor Program for oneAPI



"Next-generation supercomputers are largely heterogeneous"
- Prof. Simon McIntosh-Smith, University of Bristol

The compute world is moving to a higher diversity in workloads that in turn require a diverse set of architectures (CPU, GPU, FPGA, and other accelerators), whether for the cloud-to-the-edge or for HPC to robotics.

Future developers will require to simplify development by using standard-based, open specifications, cross architecture programming models.

Program Pillars

- Out of the box instruction via Modular Teacher Kits
- DevCloud: cluster of XPUs w/oneAPI sw stack for assignments & labs
- WW Academic Community
- Platform for showcasing work

Participating Universities

University of Cambridge; USC University of Southern California; inesc id lisboa; Técnico Lisboa; ufscar; University of Oregon; University of Bristol; Northern Illinois University

Prepare your students for heterogeneous programming, the next generation in computing

Intel® Professor Program for oneAPI

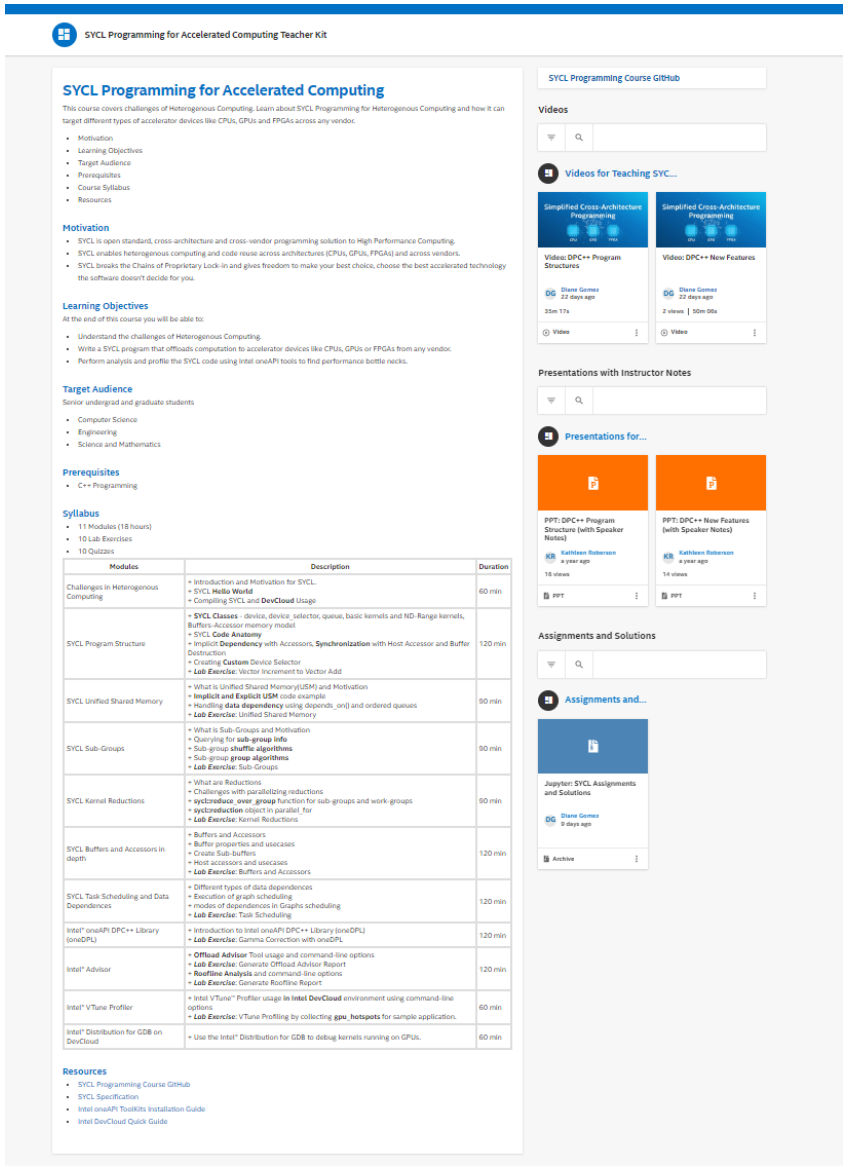
Teacher Kits

- An easy-to-access bundle of teaching materials to help educators achieve the goals of their curriculum.
- For a best-in-class experience, our content package includes:

- Syllabus
- Lecture Slides
- Speaker Notes
- Instructions for teachers
- Lecture Videos
- Hands-on Exercises & Code Samples
- Datasets & Licensing
- Sample Student Tests & Solutions
- Hardware/Software Access

SYCL Programming for Accelerated Computing Teacher Kit

Machine Learning Teacher Kit



Focus your time on teaching by integrating what you need

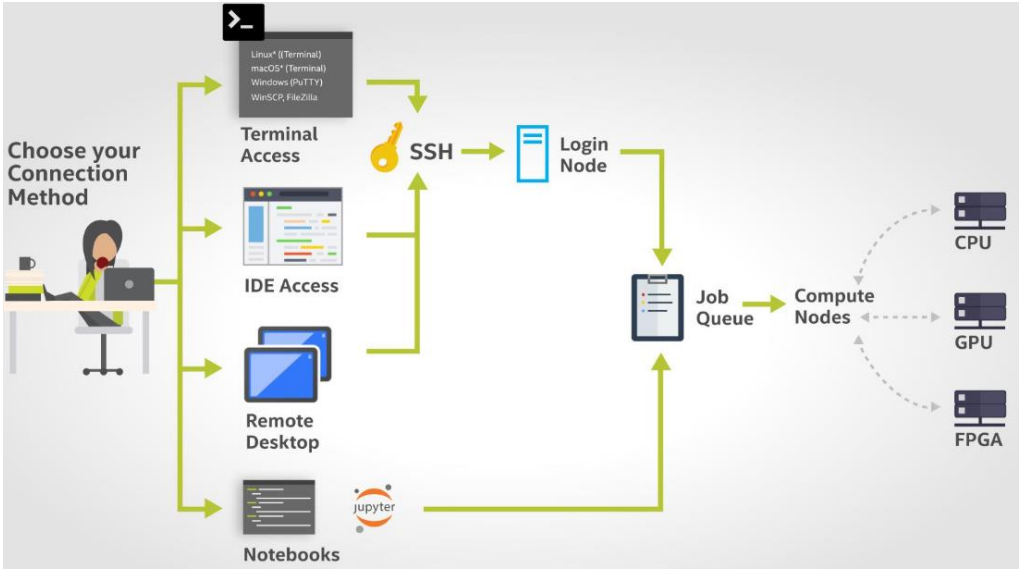
Professor & Student access to Intel® DevCloud for oneAPI

FREE Access to cutting-edge Intel hardware and software

- A cluster of cutting-edge Intel CPUs, GPUs, FPGAs
- Pre-installed Intel® oneAPI Toolkits – includes tools, frameworks and libraries

Run assignments, workshops and research projects from anywhere in your own private & secure directory

- A shared resource with your own home directory (not visible to others)
- Connect via a SSH Client or Jupyter Notebook to connect to DevCloud



Teach foundational programing concepts on latest technology

FREE Access to test code & workloads on a variety of Intel hardware with pre-installed software

Student Ambassador Program

Overview

A program targeted at software undergraduate and graduate students to skill them on oneAPI technologies, so that students graduate with experience on heterogeneous platforms

Benefits of being a SA

Recognition by Intel as oneAPI expert

Connect with Intel experts, other students and professors working on oneAPI projects

Extended access to DevCloud

Opportunity to showcase oneAPI projects at Industry and Intel sponsored events

Stipend from Intel for participation in accepted conferences/events

Support from Intel to organize local events such as watch parties/workshops to grow oneAPI community

Opportunity to learn about the latest technology developments under NDA

Opportunity to get an internship at Intel

What can you do next?

Centers of Excellence : Top HPC, Rendering and AI codes being enabled on oneAPI

Innovators : Rockstar developers and professors enabling codes on oneAPI

Students : undergrad, Grad and PhD students enabling codes on oneAPI, training other students on campus, advocating their work in the community

Teaching : Professors teaching oneAPI curriculum in their undergrad classrooms

Link to request access to teacher kits : https://learning.intel.com/Developer/pages/45/intelr-oneapi-programs

DevMesh : Showcase of projects created by our community

Notices and Disclaimers

Intel technologies may require enabled hardware, software or service activation.

No product or component can be absolutely secure.

Your costs and results may vary.

Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.

All product and service plans, roadmaps, and performance figures are subject to change without notice. Process performance parity and leadership expectations are based on performance-per-watt projections. Future node performance and other metrics, including power and density, are projections and are inherently uncertain. Learn more at www.Intel.com/ProcessInnovation.


intel