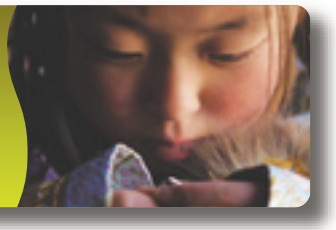
February 2007

EduConnection



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KIM'S NOTEBOOK

Flex Your Workforce

Dear [Name],

Workforce flexibility saves time, money, and the planet. It works for Sun, and it can work for your organization, too. MORE »

Kim Jones, VP, Global Education, Government, and Health Sciences Sun Microsystems, Inc.

EDU RESOURCES

» **Cool Stuff: The Big Mash-Up**
Quick Video about how students on your campus are publishing media to the internet

» **Researchers, Drive HPC Performance**
Sun HPC ClusterTools 7 offers comprehensive tools for high performance computing development

» **Solaris 10, Better than Ever**
Download the new, third release of the most advanced operating system on the planet

EVENTS

» **JavaOne 2007**
Register now and save $200 on the world's premier Java technology conference! San Francisco, May 8-11

» **Sun Tech Days**
Advance your development skills with cutting-edge education. London, 13-15 March

INSIDE TECHNOLOGY

Why Education Needs Green Computing

Datacenter growth at educational institutions is driving up energy costs and impacting the environment. Now a new generation of eco-responsible technology is delivering better performance while slashing energy, cooling, and space consumption. MORE »

SPECIAL OFFERS

Education Only: Save 28% on Sun Ray Thin Client Bundles

Sun Ray thin client solutions sidestep the higher cost, maintenance, and environmental impact of "fat" PC client environments. For a limited time, pocket a 28 percent discount on a Sun Ray bundle ideal for libraries, classrooms, and other institutional settings.

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Reap the Rewards of the Sun/EUNIS Partnership

Sun's five-year partnership with the European University Information Systems association (EUNIS) paves the way for educational institutions to enjoy promotional discounts on Sun products, free online training, and other outstanding benefits. MORE »

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Fortify Campus Security with Identity Management

Colleges and universities can't take chances with sensitive information. Learn how Sun's award-winning identity management solutions can help you simplify and secure information access for administrators, faculty, IT personnel, and students. **Get Education-only discounts** — and a free $10 Starbucks gift card! MORE »

» **EDUCAUSE**
Get plugged in with the 2007 Midwest Regional conference for educational IT administrators. Chicago, March 12-14

» **Sun Tech Days**
Advance your development skills with cutting-edge education. Brazil, April 18-20; Mexico May 16-18

» **Road Tour Latinoamérica**
Espérelo en marzo - Ciudad de México (1), Sao Paulo (6), Río de Janeiro (7), Brasilia (8), Caracas (19 y 20), Buenos Aires (27). Visite frecuentemente la página de eventos o contacte el Ã¡rea de marketing de Sun en su ciudad.

» **Sun Tech Days**
Advance your development skills with cutting-edge education. Kuala Lumpur, 6-8 March

Skill Up with Discounted Sun Certification for Students

Take advantage of substantial discounts on Solaris OS and Java technology certification for students under the Sun Academic Initiative (SAI) program. Certification boosts students' job marketability and earnings potential — and it's just one of the benefits of the free SAI program. MORE »

TECHNOLOGY TOOLKIT

Get Solaris 10 Cluster Protection

Download Solaris Cluster software at no cost for 24x7 availability and disaster recovery

StarOffice 8: Free for Education

Educators, get exclusive no-cost licensing of Sun's Microsoft-compatible office suite

EDU INSIGHT

Danger! If It Looks Grey, Stay Away

The grey market may seem like a tempting way to save big money on new technology — but it's not worth the risk. Learn how to avoid grey market landmines and ensure the Sun products are genuine and deliver the performance and reliability you expect. MORE »

Get Involved. If there are topics you'd like to see in future issues of *EduConnection* or you would like to submit an article, we want to hear from you. Click here to e-mail us.

Please have Sun Sales contact me.

Flex Your Workforce: How Open Work Saves Time, Money, and the Planet

One of the things I like best about working at Sun is the flexibility afforded by the Open Work program. Whether I am meeting with the research team at TiTech in Tokyo, in my headquarters office in Menlo Park, California, or working from the drop-in center office in San Francisco, Sun provides me with flexible and secure tools and technologies so I don't skip a beat.

RELATED RESOURCES

» **Sun Open Work Practice**
Learn how your institution can transition towards a flexible, mobile workforce

I am an active participant in Sun's flexible Open Work program for its mobile and distributed workforce. Open Work combines leading-edge technologies and forward-thinking work practices that create an innovative, productive work environment where the network is the computer and employees can work anywhere, anytime, using any device.

The program offers flexible work choices that include the option to work regularly from home or a local drop-in center, which allows employees to spend less time and money on commuting. I can frequently be found working from Sun's San Francisco drop-in center.

Drop-in centers provide workspaces and resources that employees can use at their convenience. No advance reservations are needed. Reservable drop-in centers support workers whose primarily designation is "flex." Blocks of non-reservable drop-in stations are also located through out most Sun buildings to help me and other employees stay productive between meetings.

Reducing CO2 Emissions by Thousands of Tons

I appreciate the flexibility provided by the Open Work program. I gain productivity while reducing stress by avoiding a lengthy commute in heavy traffic. Sun's Open Work program has been credited as having a positive impact on the environment by eliminating more than 3000 tons of CO2 emissions that would have been generated by employees spending hundreds of thousands of hours in bumper-to-bumper traffic

The positive impact on the environment made by Sun participants in the Open Work program resulted in Sun being designated as one of the "Best Workplaces for Commuters" by the U.S. Environmental Protection Agency and Department of Transportation. For the third year in a row, Sun was among the top 10 FORTUNE 500 companies to lead the country by providing outstanding commuter benefits to a significant portion of its U.S. workforce to help decrease air pollution, traffic congestion, and dependence on fossil fuels. Sun tops the rankings as the number one company in the computer and office equipment industry.

Transition Your Own Organization Towards Workforce Flexibility

Sun is sharing the benefits of the Open Work program and its enabling tools and technologies through its newly established Sun Open Works Practice, designed to help Education and organizations in other industries realize millions in savings by deploying a flexible, mobile 21st century workforce.

Sun's Open Work solutions include feature Sun Ray thin clients powered by Sun Fire servers and the Secure Network Application Platform. A thin client computing solution can transform office desktops, dorm room work areas, libraries, classrooms and faculty offices into secure and mobile workplaces and provide a flexible, comprehensive, and open software solution that optimizes existing IT investments.

Each user accesses his or her computing environment via a secure, personal Java Card. An employee or student can access computing resources quickly, easily, and securely from any location where ultra-thin Sun Ray clients are located.

Education Success with Thin Client Computing

One successful Sun Ray deployment is at Valparaiso University in Indiana. To eliminate complex, costly and time-consuming administration of problematic PCs, Valparaiso is deploying more than 120 Sun Ray virtual display clients across its campus — in labs, in the newly constructed 30,000-square-foot library facility, in its administrative offices and dormitories.

To have outfitted the labs with PCs would have been cost-prohibitive — as much as $6,000 per workstation — and would have required a significant time commitment from IT to maintain. By contrast, the Sun Ray, at half the size and consuming only 5 percent of the power of a traditional PC, offered a smaller footprint, dramatically lower power consumption, and the ability to run both UNIX and Microsoft platforms from a single desktop — all at prices significantly lower than comparable PCs.

In addition, because applications reside on the server, IT staff no longer has to manually update each desktop, but can simply update the servers to provide the latest applications and virus updates to workstations across campus. That capability reduces IT maintenance requirements by 97 percent — from eight hours per week to one hour per month. Solaris 9 and 10 Operating Systems run on the Sun servers that support the Sun Rays.

Doubling Availability with Sun Ray Thin Clients

Valparaiso's IT staff was so impressed with the Sun Rays in the labs that university administrators decided to deploy them in other environments. Valparaiso replaced the PCs in its on-campus kiosks, which students use to access email, course schedules, and other campus information, with the Sun Ray thin clients and nearly doubled availability in the process.

The PCs were down nearly half the time, while the Sun Ray clients have provided 97 percent availability. The university has also replaced PCs in the College of Engineering, and has chosen to deploy Sun Rays throughout its newly constructed, state-of-the-art library and research facility.

I'm sold on Open Work and on the power of Sun Ray thin client solution. I am more productive, I experience fewer instances of downtime, and don't have to worry about troublesome viruses. I enjoy the flexibility that comes with Java Card technology and the reduced level of stress that comes from not having to battle heavy traffic in peak commute hours.

I feel good that Sun's Open Work program is both supporting my team in the way we live and work — and benefiting the planet by reducing CO2 emissions.

Get started today! Schedule a briefing with a Sun Open Work practice expert and find out how your campus can cut costs, reduce productivity, and benefit the environment.

Sincerely yours,

Kim Jones
VP, Global Education, Government, and Health Sciences

Questions or comments? Please email education_news@sun.com

EduConnection

Why Education Needs Green Computing

Education customers, especially those with endless banks of datacenter servers, were telling Sun and its competitors that energy consumption had become a serious issue — that a modern datacenter could draw as much power as a good-sized city. With customers' growing concerns about climate change, along with their ongoing need to cut costs, energy use had become — well, a powerful issue.

Computing Is Becoming An Environmental Threat

Transforming the IT sector is no small task. "I saw an IDC report the other day that the cost of operating power servers is going to surpass the cost to buy them sometime in the next five years or so," says Sun Vice President for Eco-Responsibility Dave Douglas. "And when that starts to happen, that's a pretty big shift in people's mindsets. In some ways, IT is going to be important to sustainability."

But one might also ask, "Is IT itself sustainable?" Says Douglas: "I think today we really have to answer, 'No, it's not.' It's using a lot of energy and generating a lot of waste.

"We build hundreds of thousands of servers every year, so tackling the server energy issue is at the forefront of all of our thinking these days," says Douglas. "It's estimated that the total greenhouse gas emissions of servers is upwards of 200 million tons of carbon dioxide in the U.S. alone right now. And if you gather up the worldwide statistics, I believe the number might be as high as a billion tons of CO2." That's a significant chunk of the roughly 27 billion tons emitted worldwide by all human activity each year.

Sun's Eco-Responsible Products Slashes Power Requirements

As a technology company, Sun's prime contribution to eco-responsibility is centered on innovation that benefits both the customer's business and the environment by improving energy efficiency, choosing less harmful materials, and encouraging reuse and recycling.

Consider this: A large organization datacenter with 1000 servers consumes 7.02 million Kw/year — without including refrigeration, physical space requirements, and other factors.

If this same organization used Sun Fire servers based on UltraSPARC T1 processors introduced in the CoolThreads product line November 2005, consumption would be only 73,080 Kw/year, a difference of more than 6.9 million Kw/year. That's enough energy to power the electric energy needs of 2316 typical homes for a full year and would save $3.9 million USD in electricity within only three years, on average.

RELATED RESOURCES

» Education Only – Save 30% or More

Take an exclusive discount of 30 percent or more on Sun Fire servers with CoolThreads technology

» Take a No-Risk Trial

Try a Sun Fire T1000 or T2000 server with Cool-Threads technology at no cost for 60 days

» Sips Power, Gulps Data

Take a look inside innovative CoolThreads technology in UltraSPARC T1 CPU-based servers

"We were extremely pleased with this system (Sun Fire T2000) right out of the box. It is an impressive unit in how it processes and serves up business functionality, such as Web services and messaging infrastructure loads. Early indications with a very small amount of performance enhancements to our code bases are yielding 3 to 4 times increases over some other of our systems. Our internal code bases are running so fast that we were not sure if they were actually working correctly. It appears on our initial test cases that this machine will FLY."

Chuck Sears
Director, Research Computing
College of Oceanic & Atmospheric Sciences,
Oregon State University

The UltraSPARC T1 CPU: Ideal for High-Throughput Web Applications

It is no secret that to reduce costs, enterprises have deployed large volumes of inexpensive servers with inexpensive chips at the edge of IT infrastructures. It's common to see scores of commodity Web servers supporting large Web applications.

The trouble with this strategy is that it's still expensive to buy a lot of servers. It's difficult to manage the servers. The servers take up a lot of space. And it costs a fortune in power to cool the servers. As a result, today's university datacenter administrators are running out of space, while paying ever-increasing costs to procure, manage, and run Web application infrastructures.

For multi-threaded applications — such as Web serving, application serving, and lightweight database serving — where datacenters have traditionally racked up large numbers of inexpensive servers, the UltraSPARC T1 processor offers the opportunity to replace many of those servers with a single server that uses much less power.

Of course, UltraSPARC T1-based Sun Fire servers are not for every application. There are still areas where clock speed matters, such as in high performance computing. For applications that require fast floating-point calculations and for single-threaded applications, a Sun x64 or a traditional SPARC might make more sense. But for multi-threaded applications, the UltraSPARC T1 processor is specifically designed to address the needs of today's datacenters.

The UltraSPARC T1 Processor Curtails Costs and Energy Use

By offering more throughput in a smaller package, UltraSPARC T1-based Sun Fire servers herald a number of cost savings. In addition to direct cost savings through server consolidation, UltraSPARC T1-based servers can help reduce indirect costs. The most obvious example results from having to maintain and manage a significantly smaller and more standardized datacenter. Also, by consolidating server infrastructure, UltraSPARC T1-based servers allow enterprises to reduce the number of software licenses needed to support an application.

With UltraSPARC T1 processors, enterprises need fewer servers to support a typical Web application, and that means fewer servers to cool. And by reducing the amount of server space needed to support an application, the UltraSPARC T1 processor can help shrink datacenter real estate, which means less space to cool. While those are the obvious energy efficiencies created by the UltraSPARC T1 processor, the chip helps reduce cooling costs by forgoing the futile emphasis on clock speed prevalent in today's Intel-based servers.

Enterprises spent a lot of time and money switching from SPARC to x86, so why would they move back? Well, why wouldn't they? First, for people who moved to Linux, it is easy to move back to the Solaris OS. Second, UltraSPARC T1-based servers will save enterprises a significant amount in hardware procurement and maintenance. And UltraSPARC T1-based servers can dramatically improve server utilization and reduce cooling costs. There's no need to rewrite applications when you switch to UltraSPARC T1-based servers. Making the switch simply allows you to run your applications more efficiently.

Niagara 2: The Next Evolution in CoolThreads Technology

Building on the success of the UltraSPARC T1, Niagara 2 represents the next giant step in CoolThreads technology. Due for release in the second half of 2007, the processor taped out in April 2006 and promises to deliver even greater levels of throughput and power efficiency across a broader range of workloads and markets.

Niagara 2 is based on a 65 nm manufacturing process, enabling Sun to deliver an entire "system on a chip" that provides multiple benefits to customers deploying the second generation of this breakthrough technology:

- **Higher Throughput:** Increasing threads per core from 4 to 8 to deliver up to 64 simultaneous threads in a single Niagara 2 processor, resulting in at least 2x throughput of the current UltraSPARC T1 processor — all within the same power and thermal envelope
- **More Performance per Watt:** Eighty to 100 percent higher performance per watt and a 3x to 4x higher SWaP (Space, Watts, and Performance) ratio for even greater datacenter efficiency and cost reduction
- **Chip-Level Innovation:** The integration of one floating point unit per core (rather than one per processor) to deliver 10x higher throughput on applications with high floating point content such as scientific, technical, simulation, and modeling programs

Learn More and Save

See how CoolThreads outperforms the competition, try a unit at no charge, and take advantage of Education-only deep discounts:

- **Head of the Class:** Fire servers with CoolThreads technology beat IBM and Dell on performance, power consumption, and space
- **Education Only – Save 30% or More:** Take an exclusive discount of 30 percent or more on Sun Fire servers with CoolThreads technology
- **Take a No-Risk Trial:** Try a Sun Fire T1000 or T2000 server with CoolThreads technology at no cost for 60 days

Questions or comments? Please email education_news@sun.com

Danger! If It Looks Grey, Stay Away

The "grey market" may seem like a tempting way to save big money on new technology — but it's not worth the risk. The grey market refers to the flow of new goods through distribution channels other than those authorized or intended by the manufacturer or producer. Used or pre-owned goods are just that — used. Only new products fall under the legal, accepted definition of grey market.[1]

RELATED RESOURCES

» Sun Partner Directory

Browse the Sun Partner Directory for authorized resellers, distributors, system integrators, and other partners

Grey market resellers may ship systems loaded with unlawful, unlicensed software that won't withstand an audit. They may deliver hardware without a Sun warranty and ineligible for authorized Sun support services, leaving you unsupported. And their servers, storage, and workstations may contain counterfeit components that don't comply with regulations or system configuration specifications. Besides endangering users, counterfeit products may perform poorly, corrupt a computer's data, or just plain not work. Some of these grey market resellers even sell stolen goods.

All of this creates business risk for you, from hardware failure, poor product performance, or even investigation by law enforcement agencies. When your server fails and your vendor leaves you unsupported, that bargain purchase price doesn't look like such a good value.

Sun defines a grey market product as a new Sun product (typically unused and less than 15 months old) supplied by a party not authorized by Sun to do so. Sun's policy is not to allow grey market products to be placed on a Sun support contract. Normally, only Sun or its authorized resellers can transfer Solaris OS licenses.

Securing Support for Used Sun Equipment

Unlike grey market products, secondary market products may be eligible for a Sun support contract. Sun defines a secondary market product as previously owned by a legitimate customer; these products are typically traded from one end user directly to another, or via a broker or other intermediary.

Sun provides a service for customers wishing cover a legitimate secondhand product purchased on the open market with a Sun support contract. The service, called System Support Qualification Process (SSQS), initially involves a check on the product in question to ensure it is legally on the market.

Next, a Sun technician will make an on-site visit to test the system and validate its Solaris OS license. Once the

'Dodging the Fakes'

A recent article at Techworld.com offers some valuable tips on "dodging the fakes." As Techworld.com noted, "Because clones and packaging are getting more realistic, many people don't realize they have counterfeit network equipment until it's installed and begins acting quirky. Outages and failures are often the tip-off that the gear is fake." Tips to avoid problems:

- Don't shop on the Internet for deeply discounted gear
- Don't go outside your trusted channel to buy critical network components
- If you're in the market for refurbished gear, the safest bet is to purchase certified products through the manufacturer
- Check serial numbers against the vendor database
- Check packaging carefully for anything out of the ordinary in the logo, size, or type of packaging materials by comparing them with others in the same shipment
- Closely examine the gear and compare holograms and chip sets

system is qualified, the customer will receive a qualification certificate that entitles the system to be placed on a Sun support contract. The certificate is valid for 120 days and the SSQS certification process is subject to a fee that does not include parts and labor to resolve any hardware related issues.

If you have or acquire a lawfully obtained, genuine secondhand Sun product and wish to cover it with Sun support, contact your local Sun support representative and ask for an SSQS inspection.

It should be noted that the installation of grey or secondary market parts into a system covered by a Sun support contract breaches the terms of the support contract. Sun does not take any responsibility for any damage or loss of availability associated with the installation, potential failure, or removal of grey or secondary market parts in any supported system.

Protect Yourself by Dealing Only with Sun Authorized Resellers

It's important to us that you receive the highest quality service wherever you choose to purchase your Sun system. After all, it's our logo on the front and our reputation that's ultimately at stake. That's why we have rigorously certified a network of exceptional resellers, distributors, and system integrators as our partners. They have access to our expertise and training, and are expressly licensed to sell our products.

The only way to ensure you get a high quality Sun product is to purchase from Sun directly or from a Sun authorized reseller. If you have any doubt about the contractual status of any party offering to sell you Sun product, check if it's listed in the Sun Partner Directory.

Alternatively, ask the company to provide you with written confirmation that it is a Sun authorized reseller and to quote their Sun reseller agreement number. If the company is unable or unwilling to do this, then it's probably not a Sun authorized reseller.

Any party describing itself as an "independent reseller" or "independent distributor" or such likely is not authorized by Sun to sell Sun products. Even if a company's Web page has a Sun logo on it, it is not safe to assume it is authorized by Sun to sell Sun products.

A reseller can exhibit some of Sun's trademarks and logos on its Web site so long as it does so to identify genuine Sun products and use the trademarks in accordance with honest commercial practices. Therefore, the display of a Sun Microsystems logo or trademarks on a Web site is no guarantee that any contractual relationship exists between that company and Sun Microsystems.

Sun Takes Action Against Unauthorized Brokers

Sun Microsystems globally monitors the activities of unauthorized brokers and does act when appropriate to protect its intellectual property rights and its reputation as a supplier of high quality and reliable computer products. Sun has taken legal action against some brokers involved in unlawful activity and won all the cases it has initiated. Sun takes these measures to protect its customers from unscrupulous brokers and to protect its intellectual property rights as a global supplier.

Through Sun's Partner Advantage Program, it's easier than ever to find the right partner for you. But at the same time, you need to be aware of the risks and be careful when you make your purchase that you use an authorized Sun partner.

The lesson is simple: If it looks grey — stay away.

[1] http://en.wikipedia.org/wiki/Grey_market

Questions or comments? Please email education_news@sun.com

Education Customers Save 28% on Sun Ray Bundle

Sun Ray monitor bundles provide a convenient and lower cost option for purchasing Sun Ray 2 Virtual Display Client with Sun flat panel monitors. The Sun Ray 2 virtual display client is a small footprint device packed with all of the traditional Sun Ray features at price point lower than ever before. It is particularly well suited for cost-sensitive environments such as libraries, dorm rooms and classrooms.

Sun Ray virtual display clients provide students and faculty with an interoperable desktop computing solution that reduces the maintenance, upgrade, and operational costs associated with most “fat” PC client environments. The stateless nature of Sun Ray clients allows for complete session mobility, and helps ensure the protection of data. Sun Ray systems support an Open Work environment.

Education Promotional Configurations: More than 30 Sun products are deeply discounted for Education, including Sun Fire V225 and V445 SPARC servers and x64 Sun Fire X4100 and X4200 servers with AMD Opteron processors.

Don’t miss the new offers on CoolThreads servers, featuring Sun’s multithreaded UltraSPARC T1 processor for massive Web tier throughput. Many offers expiring 31 March, 2007.

Description	Edu List Price	Last Order Date
Sun Ray 2 with 19” flat panel monitor bundle. Includes one Sun Ray 2 client with one Sun 19” flat panel display (1280 x 1024 resolution). RoHS 6 complaint. Type 7 country kit not included. FOR EDUCATION ONLY. NTC-10Z-7202A-01-E	587€	31 March, 2007

Promotional pricing is in Euro. list price. Similar discounts may be offered in your geography; customers outside of the E.U. should contact their local Sun sales office. This special pricing is offered only to eligible educational institutions that have a Sun Education buying contract (EdVEU). You may purchase this promotion by speaking to a Sun customer service representative or authorized Sun partner. Products on this discount price list for Education are non-discountable; this offer cannot be combined with other discounts or sales allowance programs.

Reap the Rewards of the Sun/EUNIS Partnership

Sun's five-year partnership with the European University Information Systems association (EUNIS) paves the way for educational institutions to enjoy promotional discounts on Sun products, free online training, and other outstanding benefits.

Founded in 1993 and with members in 20 European nations, EUNIS (www.eunis.org) is the leading European organization for IT service providers in higher education and research. EUNIS aims to encourage cooperation between its members, and also with industry suppliers and other organisations.

What does EUNIS do? To date, EUNIS organized 12 annual conferences. The next one will be held in June 2007 on the campuses of Grenoble Universities.

Theses events are attended by hundreds of delegates, with awards given for the best paper and the best university-built software. EUNIS also organizes special events, like the "Rectors seminars" with the EUA (in 2006, "Impact of the Bologna Process on IT in Universities"), and e-learning task force seminars.

EUNIS has agreements and cooperates with other European and international associations, including EUA (joint events, ITBol project), TERENA (Earnest), EDUCAUSE (a large association in the U.S.), and recently CAUDIT (an equivalent association in Australia).

Learn How to Take Advantage of the Sun/EUNIS Partnership

Sun has been a corporate EUNIS partner for more than five years and is proud to offer its special programs to EUNIS member institutions. Learn how you can:

- **Build ICT Skills with Sun Academic Initiative (SAI):** SAI enables academic institutions to become authorized training centers to deliver training and provide access to online courses on Sun technologies to their faculty, staff, and students at ZERO COST.

- **Build the 21st Century Digital School:** Sun offers special promotional pricing for Education on a wide range of hardware, storage, and software products to enable you to build infrastructure for the 21st century digital school.

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Skill Up with Discounted Sun Certification for Students

Take advantage of substantial discounts on Solaris 10 OS and Java technology certification for students under the Sun Academic Initiative (SAI) program. Certification boosts students' job marketability and earnings potential — and it's just one of the many benefits for SAI participants.

The courses in the Sun Academic Initiative program help prepare students to become certified in Sun technologies, such as the Java programming language and Solaris 10 OS. Certification can go a long way in helping them stand above the crowd when marketing themselves to potential employers. SAI participants receive a substantial discount on certification costs.

To participate in this program and offer certification discounts and Sun technical training to your students, your institution must first register for the Sun Academic Initiative program. Registration is free.

Find out more about how your educational institution can become a member of the Sun Academic Initiative program.