

PARALLEL COMPUTER SYSTEM ADMIN

Paralel Bilgisayar Sistem Yöneticisi

Computational Electromagnetics Research Center of the Bilkent University (**BiLCEM**) has an opening for a parallel computer systems administrator.

BiLCEM has a dynamic environment, where state-of-the-art computing technologies are utilized to solve very-large-scale numerical electromagnetics problems that have important real-life applications, such as radars, antennas, cell phones, satellites, lasers and optical systems, to name a few. Solutions of such complicated but ultimately useful problems require the use of powerful computers. Parallel computing, parallel programming, and construction of parallel computer clusters are important areas of research at **BiLCEM**.

BiLCEM has several parallel computing platforms, including two 136-core and 64-core Intel Xeon clusters, a 16-core AMD Opteron cluster, numerous 8-core clusters, and a multitude of various PCs in its Cyberpark and EEE offices at Bilkent University. For more information about BiLCEM's computing platforms: www.cem.bilkent.edu.tr. Bilkent University and Cyberpark have modern settings and friendly environments.

A candidate for the "Parallel Computer Systems Administrator" position should be a computer and technology guru with essential education and experience. The "Administrator" will be expected to undertake the following tasks:

1. Parallel computing: MPI, setting up parallel computers, support for parallel programming
2. Administration of Linux and Windows systems
3. Maintain hardware
4. Market search and purchasing of new hardware and software
5. Install and maintain Windows and Linux OS
6. Data storage and backup
7. Purchase, install, and maintain commercial programs
8. Download, install, and maintain freeware programs
9. Web page preparation at the basic level
10. Networking (Ethernet and wireless networks)
11. Network security, firewalls
12. Data security (anti-virus and restricted access)
13. Set up and maintain shared file systems
14. Keeping computer inventory

Knowledge of the following tasks is not mandatory, however, will serve as a plus for the candidate:

15. Programming in Fortran, C, C++, MATLAB
16. Prior experience with programming in accordance with military standards and other quality standards.
17. Experience with CAD software (such as, I-DEAS, ProEngineer, Nastran, AutoCAD, gmesh)
18. Professional-level web page design and implementation

In addition to a CV/resume, the candidate should submit a letter that clearly explains the candidate's education and experience (separately) for each item in the above, such as courses taken (attach transcripts), projects completed, etc.

Competitive salary commensurate with the applicant's qualifications. Compensation package includes comprehensive medical insurance and transportation. Equal opportunity employer. No citizenship requirements. No smokers. The candidate should not have any obstacles to obtain a security clearance. Applications are sought immediately and will be accepted until the position is filled, with no specific deadline.

Applications and inquiries should be forwarded to:

Prof. Levent Gürel
Director, Computational Electromagnetics Research Center (**BiLCEM**)
Bilkent University
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Kimler başvurabilir? 4 yıllık bilgisayar mühendisliği (CS veya CENG) bölümlerinden mezun olmuş veya olmak üzere olanlar, daha önce paralel bilgisayar sistemleriyle yönetim, kurulum veya programlama deneyimi olanlar, birden fazla (onlarca) Linux/Unix sistemi barındıran bilgisayar merkezlerinde sistem yöneticiliği yapanlar, sigara kullanmayanlar, kendi kendini motive edebilenler.

Kimler başvurmamalı? "Daha önce Linux kullandım" diyenler, bilgisayar mühendisi olmayanlar, sigara kullananlar.



Computational Electromagnetics Research Center
Bilişimsel Elektromanyetik Araştırma Merkezi

Bilkent Üniversitesi Bilişimsel Elektromanyetik Araştırma Merkezi'nde (**BiLCEM**) uygulama alanları hızla genişleyen ve son yıllarda tüm dünyada önemi gittikçe artan bilişimsel elektromanyetik konusunda araştırma, eğitim ve üniversite-endüstri işbirliği kapsamında proje çalışmaları yapılmaktadır. **BiLCEM** hakkında daha fazla bilgi için: www.cem.bilkent.edu.tr. Bilişimsel elektromanyetik alanı, gerçek yaşam uygulamalarında karşılaşılan karmaşık elektromanyetik problemlerin bilişim olanaklarının kullanılarak çözülmesini sağlar. Farklı disiplinlerde uzmanlaşan akademisyen ve araştırmacıların bir araya gelmesiyle oluşan sinerji sayesinde, **BiLCEM**'de savunma, uzay, tıp, elektronik, iletişim, radarlar, antenler, elektromanyetik uyumluluk, optik, görüntüleme, uzaktan algılama ve nanoteknoloji gibi pek çok alandaki problemlerin elektromanyetik çözümleri gerçekleştirilmektedir. Bu çeşit karmaşık problemlerin çözülebilmesi için hem yazılım, hem de donanım bakımından en yeni bilişim olanakları (özellikle, paralel bilgisayar sistemleri) kullanılmaktadır.