

Senior Systems Architects  
and ASIC/FPGA Engineers:

## Specialized Supercomputer for Computational Drug Design

Successful, well-funded, rapidly growing early-stage venture based in New York City seeks extraordinarily gifted systems architects (including one senior technical manager) and ASIC/FPGA engineers to build a special-purpose supercomputer designed to fundamentally transform the process of drug discovery within the pharmaceutical industry.

This project aims to combine an innovative, massively parallel architecture incorporating application-specific integrated circuits and FPGAs with novel mathematical techniques and groundbreaking algorithmic advances in computational biochemistry to direct unprecedented computational power toward the solution of key scientific and technical problems in the field of molecular design. The successful candidate will be working closely with a number of the world's leading computational chemists and biologists, and will have the opportunity not only to participate in an exciting entrepreneurial venture with considerable economic promise, but to make fundamental contributions within the fields of biology, chemistry, and medicine.

The candidates we seek will be unusually intelligent and accomplished, with a demonstrated ability to design and implement complex, high-performance hardware solutions based on ASIC and/or FPGA technologies. We are prepared to reward exceptionally well-qualified individuals with above-market compensation as well as equity participation.

Please send resume, along with GPAs, standardized test scores (SAT, GRE), and compensation history, to [careers@schrodinger.com](mailto:careers@schrodinger.com).

Schrödinger, Inc., is an equal opportunity employer.

# SCHRÖDINGER

**IBM, India Research Lab, Research Staff Member.** IBM India Research Lab (IRL) has several positions open for Research Staff Members. Applicants should have a PhD. or M.S. degree in Computer Science or related fields, preferably in software technology, data management, middleware and application frameworks, distributed computing, e-commerce, or natural language interfaces. IRL, located on the IIT-Delhi campus, is one of the eight IBM Research labs worldwide. Its 65 research staff members are an integral part of IBM's worldwide team of about three thousand researchers. For more information please visit our website at <http://www.research.ibm.com/irl/>. To apply, please send your resume to [irl@in.ibm.com](mailto:irl@in.ibm.com), mentioning "Ref: Ad in IEEE" in the subject line. IBM is an equal opportunity employer.

**CONSULTANT (Unisys/Denver):** Utilize domain knowl & advanced mathematical methodologies to architect public sector tax & revenue s/ware applications. Apply OO analysis & design methods to develop complex solutions using Rational Suite of products. Reqs: Masters degree or equiv in comp sci, physics, math or closely related field + 4 yrs exp in job or 4 yrs as Sr Programmer Analyst, S/ware Consultant or Applications Architect/Developer. Domain expertise in public sector tax & revenue area. Expertise in Rational Suite of products. Expertise in OO solutions development. 40 hrs/wk (8-6). Salary commensurate w/exp. Send resume to IEEE Computer Society, 10662 Los Vaqueros Circle, Box# COM26, Los Alamitos, CA 90720.

**LEAD SOFTWARE ENGINEER.** Q Comm International, a high growth technical company in Orem, Utah seeks experienced Lead Software Engineer. Requires: BS Degree in computer science with 2 years software engineering experience, 1 year quality assurance experience, 3 years managerial experience, Sun's Java Certification, Proficiency in Unified Modeling Language, Unit Testing frameworks (JUnit), JBoss administration, MySQL, low-level networking techniques, Java Enterprise Beans (CMP, BMP), JDBC, Java Security, Swing Applets, Log4J; XML, Excellent research, writing and interpersonal skills, Skills in

installing, administering, shell scripting, Java programming in the Linux platform, Statistical skills for creation of reports and testing metrics. Responsibilities include: Designs and implements Java enterprise applications using Enterprise Java Beans, JavaServer Pages. Designs and implements multi-threaded communication applications, database schemas, application protocols, host-to-host integration protocols, and low-level communication protocols between the server and point of sale terminals. Writes, updates, and institutes software engineering, quality assurance, security, deployment, maintenance, and technical support schedules, metrics, policies, and procedures. Prepares and administers quality assurance, deployment, and maintenance policies and procedures. Establishes coding standards. Assigns projects and tasks to the engineering group. Directly supervises staff in the Engineering group. Recruits, participates in the interview process, and provides training and orientation for new staff and part-time employees on the operation of the Department and policies, procedures and benefits of the Company. Available for consulting at any time. Responds to technical support customer calls 24/7 every fourth week. Writes white papers and position papers about Company's technologies. Writes research documents and creates prototypes about possible new technologies. Salary DOE. Company pays 25% of the medical benefits. Position requires long hours with some Saturday work. Qualified individuals may e-mail their resume, 2 business references and salary history to: [syoung@qcomm.com](mailto:syoung@qcomm.com). EOE.

**THE UNIVERSITY OF TEXAS AT AUSTIN, Endowed Position in Distributed and Grid Computing.** The Institute for Computational Engineering and Sciences at the University of Texas at Austin invites applications for a new position in Distributed and Grid Computing that will carry a tenured appointment in Computer Sciences, Computer Engineering, or a related area and a \$2,000,000 renewable term endowment. The holder of this position will be expected to establish UT-Austin as a leader in Distributed and Grid Computing. The candidate should have a track record in interdisciplinary research and in advising PhD dissertations. Applicants

**SUBMISSION DETAILS:** Rates are \$235.00 per column inch (\$300 minimum). Eight lines per column inch and average five typeset words per line. Send copy at least one month prior to publication date to: Marian Anderson, Classified Advertising, *Computer Magazine*, 10662 Los Vaqueros Circle, PO Box 3014, Los Alamitos, CA 90720-1314; (714) 821-8380; fax (714) 821-4010. Email: [manderson@computer.org](mailto:manderson@computer.org).

should submit a full resume including ten references. Emailed resumes must be in PDF format to Lorraine Sanchez ([Lorraine@ticam.utexas.edu](mailto:Lorraine@ticam.utexas.edu)) or by US mail to: Grid Chair Search Committee, Institute for Computational Engineering and Sciences, 1 University Station C0200, The University of Texas at Austin, Austin, Texas 78712. UT-Austin is an Equal Opportunity/Affirmative Action Employer.

**UNIVERSITY OF VIRGINIA, Department of Computer Science.** The University of Virginia's Department of Computer Science invites applications for a senior, tenured faculty position. Truly outstanding candidates at the Full Professor Level in software and experimental areas of Computer Science will be considered. Candidates should have achieved international recognition as a key intellectual leader in their discipline. The candidate should also excel in teaching. Position is open until filled. Send a resume and the names of three references to Professor Jack Stankovic, Chair; Department of Computer Science; 151 Engineer's Way; P.O. Box 400740; University of Virginia; Charlottesville, VA 22904. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

## La science en ACTION pour un monde en ÉVOLUTION



The Institut national de la recherche scientifique (INRS), a university institution for research and graduate studies, both at the M.Sc. and Ph.D. levels, in Quebec, invites applications to fill:

### A PROFESSOR-RESEARCHER TENURE TRACK POSITION

at its Centre

#### ÉNERGIE, MATÉRIAUX ET TÉLÉCOMMUNICATIONS

in the following field of expertise:

##### DS-03-08 MULTIMEDIA IMAGE PROCESSING

Function - Develop innovative research activities related to image processing and computer vision.

You will find a detailed job description of this position by visiting : [www.inrs.quebec.ca](http://www.inrs.quebec.ca)

Located in the Montreal region, the centre Énergie, Matériaux et Télécommunications, recognized internationally for its innovative research, is at the core of a strategic network made up of key Canadian stakeholders in the energy, material and telecommunications field.

Interested candidates, holding a Ph.D. and pertinent studies in one of the aforementioned areas of expertise and meeting the specified requirements, are invited to forward an application, quoting the competition number DS-03-08, with a complete curriculum vitae, a copy of their 3 most representative publications, a brief description of their research and teaching interests as well as the names and addresses of 3 references before August 8, 2003, to the:

**Director**  
**Énergie, Matériaux et Télécommunications**  
**Institut national de la recherche scientifique**  
 800 de la Gauchetière Ouest, bureau 6900  
 Montréal (Québec) CANADA H5A 1K6  
[concours@inrs-emt.quebec.ca](mailto:concours@inrs-emt.quebec.ca)

INRS is an equal opportunity employer. In accordance to the Canadian Law on Immigration, priority will be given to individuals with Canadian citizenship or with permanent resident status.



Université du Québec  
**Institut national de la recherche scientifique**

## Wireless and Information Technology Executive Director

New York State recently awarded Stony Brook University a Center of Excellence to advance leading edge research in the Wireless and Information Technology. \$260M in investment is anticipated from industry, state, and federal sources for the Center with \$50M already allocated for infrastructure by New York State. The Center has a mandate to establish leadership in wireless technologies and their applications. The Center's Director must have expertise in managing collaborative projects and must hold a Ph.D. in a relevant area.

The ideal candidate will have a world-class research portfolio appropriate to the rank of Professor in an academic department and be comfortable managing large programs, have a proven track record in building high performance multi-disciplinary teams and possess, and demonstrable business savvy. The Director will develop the Center into the premier research center in wireless and information technology and will formulate the vision and goals of the Center, direct industry outreach, and manage daily operation, as well as oversee budget allocation, staffing, training, and public relations. As a catalyst for economic development, the Director will interact directly with R & D and business professionals from academia and industry to identify research with imminent marketability. Reporting to the Center Advisory Board, the Director will present all projects for technology transfer or other profit-making ventures, working toward a goal of fiscal self-sufficiency in five years through licensing, royalties and fees.

**Application Deadline:** August 1, 2003. The search will remain open past August 1, 2003 in the event a candidate is not selected from the initial pool.

Send resumes to:

Petar Djuric, Search Committee Chair  
 c/o Dean's Office – Engineering  
 Stony Brook University  
 Stony Brook, NY 11794-2200

AA/EOE. Visit [www.stonybrook.edu/cjo](http://www.stonybrook.edu/cjo) for employment information.



ROYAL INSTITUTE OF TECHNOLOGY

## Two Tenured Professors

KTH, Royal Institute of Technology invites applications for two positions as tenured professors or associated professors at the IT University in Kista, Stockholm, Sweden. We are especially interested in applicants with interdisciplinary background.

### IT product development

The subject area covers systematic techniques and processes for IT product development and design – especially the integration of hardware, software and services. The area covers the products entire life-cycle – from initial idea to the commercial product.

Reference number: 930-2003-0275.

### Design and deployment of IT systems – with a focus on robust IT environments

The subject area covers methodologies and techniques to design, dimension, deploy and operate large scale IT systems with high requirements on accessibilities and delivered quality of service towards end-users.

Reference number: 930-2003-0274.

Applications must be received no later than August 31 2003.

Further information: Dean Hannu Tenhunen, e-mail: [hannu@imit.kth.se](mailto:hannu@imit.kth.se).

The full announcement and instruction for the applications can be found at [www.it.kth.se](http://www.it.kth.se) under "Open positions".