



**THE CYPRUS
INSTITUTE**

**Computation based Science and
Technology Research Center**

**Compilation of replies to the request
for information sent to potential
CSTRC users in the
Eastern Mediterranean region**

Title	Dr.	First Name	Mahmoud Saleh	Last Name	Abdel-Dayem
Position	Biology Department	Organization	Cairo University		
Scientific field	Biology, Entomology			Email	msabdeldayem@hotmail.com
Telephone	002-0106042615	City	Cairo	Country	Egypt
<p>Research interests (personal and/or within your institution): Biodiversity, Zoogeography and taxonomy of insects</p>					
<p>Current use of computational resources (personal and/or within your institution): Studying and analysing the distribution of insects using geodatabase through GIS technology (ArcMap). Within my institute I am responsible for the electronic registration and schedule and the database of the students and courses.</p>					
<p>Needs for additional computational resources (personal and/or within your institution): To use modling for distribution prediction and forcasting of pests and predators. To meet the increase needs of my institute for developing the student database to fit all needs. To make my science/course more interesting via computational resources</p>					
<p>Interest for collaborative research in computational science (personal and/or within your institution): I am ready to collaborate in this field as personally or within my institute</p>					
<p>Interest for training in computational science (personal and/or within your institution): I am interesting to get more training in computational science either personally or within my institute.</p>					

Title	Dr.	First Name	Joan	Last Name	Adler
Position	Senior research fellow		Organization	Technion	
Scientific field	Computational physics			Email	phr76ja@tx.technion.ac.il
Telephone	97248293937	City	Haifa	Country	Israel
Research interests (personal and/or within your institution): Personal - Computational Condensed Matter Physics Technion - Science and Engineering					
Current use of computational resources (personal and/or within your institution): Personal - Computational Physics Group machines and NANCO the RBNI linux cluster (http://phycomp[.technion.ac.il/~nanco)					
Needs for additional computational resources (personal and/or within your institution): As NANCO begins to fill up I will need more resources					
Interest for collaborative research in computational science (personal and/or within your institution): Yes. I can contribute visualization codes to atomistic simulation projects					
Interest for training in computational science (personal and/or within your institution): Strong interest and need for this.					

Title	Position	Organization	Scientific field
Professor	Professor	The Hebrew University	Geodynamics

First Name	Last Name	Email	Telephone	City	Country
Einat	Aharonov	Einat.aharonov@weizmann.ac.il	+972-544-956907	Jerusalem	Israel

<p>Research interests (personal and/or within your institution) Dynamics of the lithosphere and crust, landslides, faults, reactive flow, pressure solution, granular media (wet and dry)</p>
<p>Current use of computational resources (personal and/or within your institution) Mac and Unix, plan to operate XGrid Mac next year, for large scale granular dynamics (with and without pore fluids) simulations to study meso-scale friction and liquefaction processes</p>
<p>Needs for additional computational resources (personal and/or within your institution) One limiting factor in the advancement of understanding the subject is the discrepancy between the computational needs and availability. Therefore, we can use ANY additional computational capacity.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) As long as it will provide us with access to significant additional computation capacity.</p>
<p>Interest for training in computational science (personal and/or within your institution) This is necessary for our students. Currently it is not sufficiently available. Especially the need for training in parallel computations.</p>
<p>Interest in attending an HPC users meeting in your country or abroad This will be useful for us.</p>

Title	Prof.	First Name	Yitzhak	Last Name	Apeloig
Position	President		Organization	Technion	
Scientific field	Chemistry			Email	apeloig@technion.ac.il
Telephone	+9724-8292595	City	Haifa	Country	Israel
Research interests (personal and/or within your institution): Computational chemistry					
Current use of computational resources (personal and/or within your institution): a variety of workstations and PC-clusters					
Needs for additional computational resources (personal and/or within your institution): significant					
Interest for collaborative research in computational science (personal and/or within your institution): very interested					
Interest for training in computational science (personal and/or within your institution): very interested					

Title	Dr.	First Name	Georgios	Last Name	Archontis
Position			Organization	UCy	
Scientific field	Biophysics			Email	archonti@ucy.ac.cy
Telephone	+357 22 89 28 22	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Biomolecular Simulations with atomic-detail Hamiltonians and implicit-solvent models; Structure-function and dynamics-function properties of biomolecules. Free energy Calculations. Thermodynamics of biomolecular solutions					
Current use of computational resources (personal and/or within your institution): Linux clusters					
Needs for additional computational resources (personal and/or within your institution): Computational platforms that can be used for parallel molecular dynamics simulations of biomolecular systems with $O(10,000)$ - $O(100,000)$ particles.					
Interest for collaborative research in computational science (personal and/or within your institution): Collaboration with computational physicists/chemists/biologists working in the area of computational biophysics, and with related experimentalists.					
Interest for training in computational science (personal and/or within your institution): I am interested in training people in the area of biophysical modeling and simulation.					

Title	Professor	First Name	Canan	Last Name	Atilgan
Position			Organization	Sabanci University	
Scientific field	Materials Science and Engineering			Email	canan@sabanciuniv.edu
Telephone	+90(216)4839523	City	Istanbul	Country	Turkey
Research interests (personal and/or within your institution): Polymer and protein dynamics; theoretical and computational investigation of complex molecular systems					
Current use of computational resources (personal and/or within your institution): Workstations totaling 30 state-of-the art CPUs on campus					
Needs for additional computational resources (personal and/or within your institution): possibly additional 30 CPUs					
Interest for collaborative research in computational science (personal and/or within your institution): none in particular					
Interest for training in computational science (personal and/or within your institution): none					

Title	Prof.	First Name	Mike	Last Name	Averkiou
Position	Assistant Professor		Organization	UCY	
Scientific field	Medical Imaging			Email	maverk@ucy.ac.cy
Telephone	00357 22892255	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Medical Imaging, Diagnostic ultrasound, therapeutic applications of ultrasound, tumor angiogenesis imaging and quantification.					
Current use of computational resources (personal and/or within your institution): Matlab, LabVIEW, FORTRAN, pc, UCY-MME Cluster					
Needs for additional computational resources (personal and/or within your institution): More powerful computers will always be needed					
Interest for collaborative research in computational science (personal and/or within your institution): Always welcome					
Interest for training in computational science (personal and/or within your institution): Yes for graduate students					

Title	Miss	First Name	Sherine	Last Name	Awad
Position	Lecturer-Assistant		Organization	Information Systems Department- Suez Canal University	
Scientific field	Bioinformatics			Email	sherine.awad@mail.com
Telephone	20 12 4660419	City	Ismailia	Country	Egypt
Research interests (personal and/or within your institution): Data mining, bioinformatics					
Current use of computational resources (personal and/or within your institution):					
Needs for additional computational resources (personal and/or within your institution):					
Interest for collaborative research in computational science (personal and/or within your institution): Data mining, bioinformatics					
Interest for training in computational science (personal and/or within your institution): Data Mining: Mining Association Rules , mining Surprising Patterns, Mining time dependent patterns in time series databases Bioinformatics: Mining surprising gene sequence to predict mutation					

Title	Eng.	First Name	Amr	Last Name	Beltagy
Position	IT Manager		Organization	Scientific Computation Center	
Scientific field	Network administration			Email	amro_bel@yahoo.com amro@cu.edu.eg amro@mail.eun.eg
Telephone	0101054379	City	Cairo	Country	Egypt
Research interests (personal and/or within your institution):					
Current use of computational resources (personal and/or within your institution):					
Needs for additional computational resources (personal and/or within your institution):					
Interest for collaborative research in computational science (personal and/or within your institution):					
Interest for training in computational science (personal and/or within your institution):					

Title	Position	Organization	Scientific field
Dr.	Professor	Tel Aviv University	Solid State Physics

First Name	Last Name	Email	Telephone	City	Country
David	Bergman	Bergman@post.tau.ac.il	+972-3-640-8543	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Composite media, solid state physics, statistical mechanics, Bio-physics</p>
<p>Current use of computational resources (personal and/or within your institution) Solving Maxwell's equations in a heterogeneous medium, diagonalizing large, non-sparse matrices</p>
<p>Needs for additional computational resources (personal and/or within your institution) Need a high performance super-computer.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution)</p>
<p>Interest for training in computational science (personal and/or within your institution)</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p>

Title	Position	Organization	Scientific field
Ph.D.	Assoc. Prof.	Tel Aviv University	Computational Electromagnetics

First Name	Last Name	Email	Telephone	City	Country
Amir	Boag	boag@eng.tau.ac.il	+972-3-6408246	Tel Aviv	Israel

Research interests (personal and/or within your institution) Computational Electromagnetics including Numerical Methods for solving Integral and Differential Equations, Fast Multilevel Algorithms
Current use of computational resources (personal and/or within your institution) A number of multi-core workstations such as Dell T7400 and Dell Precision 690
Needs for additional computational resources (personal and/or within your institution) Parallel Architectures with powerful nodes with large RAM
Interest for collaborative research in computational science (personal and/or within your institution) Yes
Interest for training in computational science (personal and/or within your institution) Yes, Training in OpenMP and especially MPI for students
Interest in attending an HPC users meeting in your country or abroad Yes

Title	Prof.	First Name	Göksel N.	Last Name	Demirer
Position	Chair of the Dept of Environmental Engineering		Organization	METU	
Scientific field				Email	goksel@metu.edu.tr
Telephone		City		Country	Turkey
Research interests (personal and/or within your institution):					
Current use of computational resources (personal and/or within your institution):					
There are several PC and UNIX labs (sun machines) open to the members of the University within the campus. In our Department, we have a lab consisting of about 20 PCs. In addition we have a LINUX lab consisting of 10 PCs and an IBM Server. This lab is heavily used for graduate studies in environmental modeling and optimization. The University and our Department is also connected to TR-Grid, The National Grid Initiative.					
Needs for additional computational resources (personal and/or within your institution):					
Current infrastructure is sufficient for majority of the high performance computation needs and computational research. However, as user number increases, current computational resources may need improvement or new resources may be required.					
Interest for collaborative research in computational science (personal and/or within your institution):					
Interest for training in computational science (personal and/or within your institution):					
Current resources and training are provided by the Computer Center of METU. In addition, short courses are provided to young scientists through computer science department and Computer Center of METU. Therefore, various training activities are available in METU or established upon request.					

Title	Prof.	First Name	Haris	Last Name	Doumanidis
Position	Professor		Organization	UCy	
Scientific field	Nanotechnology			Email	cdoumani@ucy.ac.cy
Telephone	22892250	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Nanomanufacturing, controls, biomedical engineering					
Current use of computational resources (personal and/or within your institution): 4quad-processor server, jobs on Beowulf cluster					
Needs for additional computational resources (personal and/or within your institution): supercomputer access					
Interest for collaborative research in computational science (personal and/or within your institution): computational mechanics and fluidics					
Interest for training in computational science (personal and/or within your institution): in MEMS design software					

Title	Position	Organization	Scientific field
Professor	Professor	Tel Aviv University	Management

First Name	Last Name	Email	Telephone	City	Country
Dov	Eden	doveden@post.tau.ac.il	6409558	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution)</p> <p>Social-scientific field experimentation in management and organizational behavior</p>
<p>Current use of computational resources (personal and/or within your institution)</p> <p>Using PC both in office and at home. Also laptop for travel</p>
<p>Needs for additional computational resources (personal and/or within your institution)</p> <p>None besides periodic, routine upgrading of hardware and software.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution)</p> <p>No.</p>
<p>Interest for training in computational science (personal and/or within your institution)</p> <p>Not necessary.</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p> <p>No.</p>

Title	Dr.	First Name	Andreas	Last Name	Efstathiou
Position	Chairman of Department of Computer Science and Engineering		Organization	European University Cyprus	
Scientific field				Email	a.efstathiou@euc.ac.cy
Telephone		City	{Address 3}	Country	Cyprus
Research interests (personal and/or within your institution):					
<p>It is now clear that the effects of cosmic dust need to be taken into account for a complete understanding of the processes of galaxy formation and evolution. I am interested in Radiative transfer in dust clouds and its application in modeling the spectral energy distributions of galaxies from the ultraviolet to the submillimeter. Over the years I have developed state-of-the-art codes that solve the radiative transfer problem in axisymmetric media and include the effect of scattering and transient heating of small grains/PAHs. My models have been used to model the emission of almost any type of extragalactic object and for other applications.</p>					
Current use of computational resources (personal and/or within your institution):					
<p>My computational resources are currently limited to a PC.</p>					
Needs for additional computational resources (personal and/or within your institution):					
<p>I am in constant need of additional computational resources for further development of my models.</p>					
Interest for collaborative research in computational science (personal and/or within your institution):					
<p>I currently collaborate with Prof Michael Rowan-Robinson (Imperial College, London) and Dr Ralf Siebenmorgen (European Southern Observatory) who are both experts on radiative transfer.</p>					
Interest for training in computational science (personal and/or within your institution):					
<p>I would be interested in training in the use of HPC facilities.</p>					

Title	Prof.	First Name	Burak	Last Name	Erman
Position	Dept. Of Chem. & Biological Engineering		Organization	Koc University	
Scientific field				Email	berman@ku.edu.tr
Telephone		City	{ Address 3 }	Country	Cyprus
Research interests (personal and/or within your institution): polymer and biomolecule physics and chemistry					
Current use of computational resources (personal and/or within your institution): cluster of 64 nodes					
Needs for additional computational resources (personal and/or within your institution): no					
Interest for collaborative research in computational science (personal and/or within your institution): yes					
Interest for training in computational science (personal and/or within your institution): yes					

Title	Assoc. Prof.	First Name	Konstantinos	Last Name	Fokianos
Position	Dept. of Mathematics & Statistics		Organization	UCy	
Scientific field				Email	fokianos@ucy.ac.cy
Telephone	22 89 2614	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Time series, semiparametrics, simulation					
Current use of computational resources (personal and/or within your institution): PC, software : R					
Needs for additional computational resources (personal and/or within your institution): Extended simulations, data mining					
Interest for collaborative research in computational science (personal and/or within your institution): Simulations, Random fields, data mining, image analysis					
Interest for training in computational science (personal and/or within your institution): Simulations, statistical analysis of simulated data					

Title	Dr.	First Name	Marios M.	Last Name	Fyrillas
Position	Assoc. prof.		Organization	Frederick University	
Scientific field	Mechanical Engineering			Email	m.fyrillas@frederick.ac.cy
Telephone	+357 22345159 ext. 131	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Theoretical/Computational Fluid Dynamics					
Current use of computational resources (personal and/or within your institution): Personal Computer/Workstation					
Needs for additional computational resources (personal and/or within your institution): Parallel Machine and Parallel Version of Matlab					
Interest for collaborative research in computational science (personal and/or within your institution): Applied Numerical Optimization					
Interest for training in computational science (personal and/or within your institution): Software on Numerical Optimization					

Title	Position	Organization	Scientific field
Mr.	Research Associate and Assistant Director	Galil Center- Ruth & Bruce Rappaport Faculty of Medicine – Technion, Haifa	Medicine- Medical Informatics, Telemedicine and Personalized Medicine

First Name	Last Name	Email	Telephone	City	Country
Sharon	Gazit	gazits@technion.ac.il	04-8295402	Haifa	Israel

<p>Research interests (personal and/or within your institution) Informatics, Telemedicine and Personalized Medicine</p>
<p>Current use of computational resources (personal and/or within your institution) Using servers on site</p>
<p>Needs for additional computational resources (personal and/or within your institution) It will be a very good in collaboration as tool for data mining.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) Bioinformatics – Personalized medicine Data Collection and analysis.</p>
<p>Interest for training in computational science (personal and/or within your institution) Yes interested to hear more. Either way, on campus or of campus options can apply.</p>
<p>Interest in attending an HPC users meeting in your country or abroad Yes very much interested to hear more on HPC.</p>

Title	Position	Organization	Scientific field
Professor	Assoc. Professor	Tel-Aviv University	Computational Fluid Dynamics

First Name	Last Name	Email	Telephone	City	Country
Alexander	Gelfgat	gelfgat@eng.tau.ac.il	972-3-6407207	Tel-Aviv	Israel

<p>Research interests (personal and/or within your institution) Computational Fluid Dynamics and Heat Transfer, Direct Numerical Simulation</p>
<p>Current use of computational resources (personal and/or within your institution) A 40-node cluster at our department and HLRN cluster in Berlin, Germany, within a German-Israeli (GIF) project</p>
<p>Needs for additional computational resources (personal and/or within your institution)</p> <p>In my opinion all Israeli universities need an access to a supercomputer facility. Absence of a national supercomputer facility does not allow to many researchers to perform state-of-the-art projects.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution)</p> <p>I already have an established collaboration with Institute of Crystal Growth, Berlin, and with ESPCI, Paris. Another two projects with Ecole Normale Supérieure de Lyon, and University of Nottingham, UK. All the projects involve high performance computing.</p>
<p>Interest for training in computational science (personal and/or within your institution)</p> <p>We are interested to train our students at M.Sc. level and higher. We also will be very happy to have visitors willing to learn our methodology and to develop it further.</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p> <p>Absolutely interested.</p>

Title	Prof.	First Name	G.	Last Name	Gergiou
Position	Professor		Organization	Dept. Of Mathematics, Ucy and Oceanographic Center	
Scientific field	Mathematics & Oceanography			Email	georgios@ucy.ac.cy
Telephone	+357 22892612	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Finite elements. Boundary integral methods. Singularities. Computational Rheology. Computational Oceanography.					
Current use of computational resources (personal and/or within your institution): IBM workstations (Unix, Windows, Linux)					
Needs for additional computational resources (personal and/or within your institution): To parallelize some of our codes for the solution of time-dependent flow problems. In our oceanography codes, we need to increase the resolution of the grids.					
Interest for collaborative research in computational science (personal and/or within your institution): YES					
Interest for training in computational science (personal and/or within your institution): YES					

Title	Prof.	First Name	Chryssis	Last Name	Georgiou
Position	Lecturer		Organization	UCY	
Scientific field	CS, HPC			Email	chryssis@cs.ucy.ac.cy
Telephone	00357 22892745	City	{Address 3}	Country	Cyprus
Research interests (personal and/or within your institution): Fault-tolerant Parallel and Distributed Computing					
Current use of computational resources (personal and/or within your institution): Cluster of workstations, PlanetLab					
Needs for additional computational resources (personal and/or within your institution): Shared-memory machine (closely coupled)					
Interest for collaborative research in computational science (personal and/or within your institution): Yes I am interest from the parallelization point of view.					
Interest for training in computational science (personal and/or within your institution): No time for training sessions.					

Title	Position	Organization	Scientific field
Professor	Professor	The Hebrew University	Groundwater Hydrology

First Name	Last Name	Email	Telephone	City	Country
Haim	Gvirtzman	haimg@huji.ac.il	+972-2-6584912	Jerusalem	Israel

<p>Research interests (personal and/or within your institution) Groundwater flow, solute transport and heat transport within aquifer systems</p>
<p>Current use of computational resources (personal and/or within your institution) Several PC computer clusters, for simulating groundwater flow, solute transport and heat transport.</p>
<p>Needs for additional computational resources (personal and/or within your institution) The limiting factor in the advancement of understanding the subject is the discrepancy between the computational needs and availability. Therefore, we can use ANY additional computational capacity.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) As long as it will provide us with access to significant additional computation capacity.</p>
<p>Interest for training in computational science (personal and/or within your institution) This is necessary for our students. Currently it is not sufficiently available.</p>
<p>Interest in attending an HPC users meeting in your country or abroad This will be useful for us.</p>

Title	Position	Organization	Scientific field
Ph.D.	Professor	Tel Aviv University	Biology/Biophysics

First Name	Last Name	Email	Telephone	City	Country
Yoav	Henis	henis@post.tau.ac.il	03-6409053	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Biophysics, cancer, fluorescence-based imaging methods</p>
<p>Current use of computational resources (personal and/or within your institution) 9 PCs in the lab, use high storage capacity on university computers (several terabytes)</p>
<p>Needs for additional computational resources (personal and/or within your institution)</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) Within my institution, collaboration with Physical Chemistry (Prof. Joseph Klafter) on modeling of proteins interaction with the membrane and with focal adhesions.</p>
<p>Interest for training in computational science (personal and/or within your institution) Mainly Matlab</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p>

Title	Prof.	First Name	Tarek	Last Name	Hussein
Position	President of Academy of Scientific Research and Technology ASRT		Organization	Faculty of Science, Cairo University	
Scientific field	High Energy and Particle Physics			Email	hussein1@mail.eun.eg tarek@asrt.sci.eg
Telephone	+20101960899	City	Cairo	Country	Egypt
Research interests (personal and/or within your institution): High energy and Particle Physics- Neutrino Physics and weak interactions. Simulation Codes for lepton interactions with matter. Magnetons and neutron stars. Multi-particle production in hadron interactions. Synchrotron Light Applications,					
Current use of computational resources (personal and/or within your institution): Simulation Codes in solving systems of many body problems Synchrotron data analysis					
Needs for additional computational resources (personal and/or within your institution): The simulation codes for such complicated systems in multi-dimension need fast computation tools (grid computing systems)					
Interest for collaborative research in computational science (personal and/or within your institution): Networking with distinguished centers is always useful to exchange knowledge and expertise.					
Interest for training in computational science (personal and/or within your institution): It will be useful for me and my students to get the modern trends in the field of computational science.					

Title	Dr.	First Name	Alaa	Last Name	Ibrahim
Position	Assistant Professor		Organization	Cairo University & American Univ. of Cairo	
Scientific field	Astrophysics			Email	alaa@gwu.edu
Telephone	+20 10 103 8182	City	Cairo	Country	Egypt
Research interests (personal and/or within your institution): Astrophysics, data analysis & manipulation, data visualization (IDL)					
Current use of computational resources (personal and/or within your institution): A lab of circa 25 networked Linux machines					
Needs for additional computational resources (personal and/or within your institution): Remote access to faster computing resources is highly desirable					
Interest for collaborative research in computational science (personal and/or within your institution): Data analysis & manipulation, esp. in astrophysics, data visualization (IDL)					
Interest for training in computational science (personal and/or within your institution): Data analysis & manipulation, esp. in astrophysics, data visualization					

Title	Prof.	First Name	Theodoros	Last Name	Katsaounis
Position	Assistant Professor		Organization	University of Crete	
Scientific field	Comput. Math, CFD			Email	thodoros@tem.uoc.gr
Telephone	0030 2810 393723	City	Heraklion	Country	Greece
Research interests (personal and/or within your institution): Numerical methods for PDE's, Scientific Computing, Computational Fluid Dynamics(CFD), Mathematical Biology					
Current use of computational resources (personal and/or within your institution): Heavy usage of the available computational resources in our institution					
Needs for additional computational resources (personal and/or within your institution): There is a big, personal and within our group, need of additional computational resources (serial and parallel computing)					
Interest for collaborative research in computational science (personal and/or within your institution): Personally and I think in our group there is an increasing interest for collaborative research in computational science					
Interest for training in computational science (personal and/or within your institution): It's not clear to me what you mean by this question					

Title	Professor	First Name	Pantelis	Last Name	Kelires
Position	Coordinator, Dept. of Mechanical and Materials Science Engineering		Organization	CUT (CYPRUS UNIVERSITY OF TECHNOLOGY)	
Scientific field	Computational Materials Science, Condensed Matter Physics			Email	pantelis.kelires@cut.ac.cy
Telephone	25-002559	City	Lemesos	Country	Cyprus
Research interests (personal and/or within your institution): Crystalline and amorphous semiconductors and their alloys; Nanomaterials (heteroepitaxial quantum dots, nanocrystals, nanostructured materials); Mechanical, electronic and optical properties; Order-disorder phenomena, phase transitions; Expert in Monte Carlo simulations; Tight-binding Molecular Dynamics; Ab initio (DFT) calculations.					
Current use of computational resources (personal and/or within your institution): Use of a personal cluster of PC`s (Crete); Development of a cluster of PC`s in CUT.					
Needs for additional computational resources (personal and/or within your institution): Anything additional is useful!					
Interest for collaborative research in computational science (personal and/or within your institution): Open to collaborations in the field of Computational Materials Science.					
Interest for training in computational science (personal and/or within your institution): I will be glad to offer training in my field of expertise (Monte Carlo & Molecular Dynamics Simulations). Training in Density Functional Theory calculations for our future students will be welcome.					

Title	Mr.	First Name	Ioannis	Last Name	Kirmitzoglou
Position	Bioinformatics Research Laboratory, Department of Biological Sciences		Organization	UCy	
Scientific field	Bioinformatics			Email	ioanniskirmitzoglou@gmail.com
Telephone	+357 22892571	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Protein sequence analysis Protein secondary structure prediction Transmembrane protein topology and structure prediction Comparative genomics Phylogenetic analysis					
Current use of computational resources (personal and/or within your institution): Current use of computational resources is limited within our research lab (~ 5 workstations)					
Needs for additional computational resources (personal and/or within your institution): The Bioinformatics Research Laboratory is always interested in using state-of-the-art computational methods for biological sequence analysis and would happily participate in collaborative projects with research groups from the Cyprus Institute on the aforementioned and related research subjects.					
Interest for collaborative research in computational science (personal and/or within your institution): The Bioinformatics Research Laboratory is always interested in using state-of-the-art computational methods for biological sequence analysis and would happily participate in collaborative projects with research groups from the Cyprus Institute on the aforementioned and related research subjects.					
Interest for training in computational science (personal and/or within your institution): Usage of HPCs (e.g. common queuing systems, using HPCs for serial or parallel applications) Training in parallel computing programming (e.g. parallelization of serial applications, common platforms for parallel and distributed computing such as MPI, PVM, Grid-computing) Specialized parallel software for computational biology / bioinformatics.					

Title	Professor	First Name	Erricos	Last Name	Kontoghiorghes
Position	Associate Professor	Organization		UCy	
Scientific field	Parallel algorithms & Computational statistics			Email	erricos@ucy.ac.cy
Telephone	25 722 887	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Computational statistics, linear models, statistical model selection, matrix computations and parallel algorithms.					
Current use of computational resources (personal and/or within your institution): The University of Geneva a 64-processor PC cluster and SUN Enterprise 10000 is used.					
Needs for additional computational resources (personal and/or within your institution):					
Interest for collaborative research in computational science (personal and/or within your institution): Within the area of computationally intensive matrix-algorithms for applications in statistics.					
Interest for training in computational science (personal and/or within your institution):					

Title	Mr	First Name	Giannis	Last Name	Kouretis
Position	student		Organization	NTUA	
Scientific field	High Energy Physics			Email	kouretis@mail.cern.ch
Telephone	+306948182596	City	Athens	Country	Greece
Research interests (personal and/or within your institution): Desktop Grid infrastructure engineering and applications in multimedia and physics					
Current use of computational resources (personal and/or within your institution): We currently use and support GR-03-HEPNTUA					
Needs for additional computational resources (personal and/or within your institution): We integrate desktop grid resources through LiveWN in order to cover or excess needs (http://gridathome.sf.net)					
Interest for collaborative research in computational science (personal and/or within your institution): We are interested to collaborate with institutions interested on desktop grid technologies					
Interest for training in computational science (personal and/or within your institution):					

Title		First Name	G.	Last Name	Koutsou
Position	Graduate Student		Organization	Ucy	
Scientific field	Lattice QCD			Email	koutsou@ucy.ac.cy
Telephone	+357 22892850	City	Nicosia	Country	Cyprus

Research interests (personal and/or within your institution): The group deals with solving computationally the theory of strong interactions (QCD). QCD is different from the theory of the weak interactions and electromagnetism in that it requires a non - perturbation approach. The most widely practiced approach is to discretize space time on a four - dimensional lattice and simulating the theory i.e. Lattice QCD. As for the specific interests of the group, we are interested in hadron deformation and hadron structure. Such quantities as form factors and charge distributions give insight to the shape of hadrons and their underlying structure.

Current use of computational resources (personal and/or within your institution): The group has applied and has been granted access to two major computational centers: The computational center at NERSC and the one in Juelich. As an indication of the resources needed by our group, for the current accounting year our group was awarded an equivalent of 150,000 CPU hours on the CrayXT4 at NERSC and an equivalent of 78,000 CPU hours on the IBM Regatta system at Juelich. Additionally we have access to MIT's BlueGene/L dedicated to Lattice QCD. The group itself has a small (48 - node) PC cluster.

Needs for additional computational resources (personal and/or within your institution): The group has always been in need of computer time. All the time awarded by the two large centers mentioned above have been effectively consumed each year (we have had access to NERSC for more than five years and have had access to Juelich from 2005). Access to a third large computational center, with resources of the order of Juelich for instance, will allow us to expand to several other projects as well as improve on results we already have.

Interest for collaborative research in computational science (personal and/or within your institution): Our group is currently collaborating with other institutions through which we gain access to these resources. Access to MIT's BlueGene/L is a result of a common project between our group and the MIT group. This collaboration has been ongoing for several years now, allowing us access to NERSC's resources. The group is also part of the so called European Twisted Mass Collaboration (ETMC). It is through this collaboration that we have access to the BlueGene/L and lately the BlueGene/P at Juelich.

Interest for training in computational science (personal and/or within your institution): Lattice QCD is extremely demanding when it comes to computational resources. Thus fine tuned and optimized code is crucial to the competitiveness of a group. Among other aspects we would be very interested in having a facility in the region that would provide such technical expertise.

Title	Dr.	First Name	Simon	Last Name	Krichak
Position	Principal Scientist		Organization	Tel Aviv University	
Scientific field	Meteorology			Email	shimon@cyclone.tau.ac.il
Telephone	+972 3 6405694	City	Tel Aviv	Country	Israel
Research interests (personal and/or within your institution): Meteorology					
Current use of computational resources (personal and/or within your institution): Yes					
Needs for additional computational resources (personal and/or within your institution): Yes					
Interest for collaborative research in computational science (personal and/or within your institution): Yes					
Interest for training in computational science (personal and/or within your institution): Possibly					

Title	Dr.	First Name	Leeor	Last Name	Kronik
Position	Senior Scientist		Organization	Weizmann	
Scientific field	Materials science			Email	leeor.kronik@weizmann.ac.il
Telephone	+972-8-934-4993	City	Rehovoth	Country	Israel
Research interests (personal and/or within your institution): First principles electronic structure theory					
Current use of computational resources (personal and/or within your institution): A 60 processor SGI altix.					
Needs for additional computational resources (personal and/or within your institution): Would gain tremendously from access to several hundred additional processors.					
Interest for collaborative research in computational science (personal and/or within your institution): Generally open to scientifically relevant collaborations.					
Interest for training in computational science (personal and/or within your institution):					

Title	Professor	First Name	Epameinondas	Last Name	Leontidis
Position	Department of Chemistry		Organization	Ucy	
Scientific field	Chemistry			Email	psleon@ucy.ac.cy
Telephone	+357 22 892767	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution): Colloid Chemistry, basic and its applications to materials chemistry. Effects of electrolytes on biological models. Powders and films from silica and applications.					
Current use of computational resources (personal and/or within your institution): PCs and workstations, but no extensive use of clusters.					
Needs for additional computational resources (personal and/or within your institution): Large-scale simulations of lipid aggregates (micelles or bilayers) over long time scales necessitate very large clusters or other related facilities					
Interest for collaborative research in computational science (personal and/or within your institution): Already doing collaborating work with Prof Archontis (UCY, Physics) on Molecular Dynamics of electrolytes at surfaces. I am interested to collaborate on simulations of electrolytes next to lipid bilayers or polypeptides					
Interest for training in computational science (personal and/or within your institution): -----					

Title	Prof.	First Name	Zev	Last Name	Levin
Position	Dept. of Geophysics and Planetary Science		Organization	Tela Aviv University	
Scientific field	Cloud and Precipitation Physics, Aerosol research as applied to Climate			Email	zevlev@post.tau.ac.il
Telephone	972-3-6408274	City	Tel Aviv	Country	Israel
Research interests (personal and/or within your institution): The role of aerosols and air pollution in clouds and precipitation development. Laboratory experiments of ice formation in clouds. Numerical modeling of clouds and precipitation.					
Current use of computational resources (personal and/or within your institution): Mostly for numerical modeling of clouds and precipitation					
Needs for additional computational resources (personal and/or within your institution): Need extra computational power for running 3D meso-scale models					
Interest for collaborative research in computational science (personal and/or within your institution): My group will be interested in joining efforts in numerical modeling of clouds, lightning and precipitation.					
Interest for training in computational science (personal and/or within your institution): Since I am officially retired, it will be up to my colleagues and our department's students to participate in such training.					

Title	Dr.	First Name	Ilias	Last Name	Maglogiannis
Position	Assistant Prof.		Organization	AEGEAN	
Scientific field	Biomedical informatics			Email	imaglo@aegean.gr
Telephone		City		Country	Greece
Research interests (personal and/or within your institution):					
Biomedical Informatics and Bioinformatics Image and Video Processing Parallel Algorithms Analysis of cDNA microarray experiments					
Current use of computational resources (personal and/or within your institution):					
Scientific Linux on sites with versions 3.0.7, 3.0.8 or 4.0 GNU Octave Forge v2.1.73 for mathematical computations MPI v1.2.6 library for parallelization					
Needs for additional computational resources (personal and/or within your institution):					
MATLAB BioPerl v. 1.4 or newer for motif searching					
Interest for collaborative research in computational science (personal and/or within your institution):					
Research in the fields of Biomedical Informatics and Bioinformatics, Image and Video Processing and Analysis of cDNA microarray experiments					
Interest for training in computational science (personal and/or within your institution):					
JDL, GRID PORTALS AND GRID DATABASES, MPI					

Title	Prof.	First Name	Evangelos	Last Name	Markatos
Position	Professor		Organization	University of Crete	
Scientific field	CS, HPC			Email	markatos@csd.uoc.gr
Telephone	0030 2810 391655	City	Heraklion	Country	Greece

Research interests (personal and/or within your institution):

Internet Systems and Technologies, the World-Wide Web, Peer-to-Peer Systems, Distributed Systems, Operating Systems, and Computer Architecture

Current use of computational resources (personal and/or within your institution):

GR-04-FORTH-ICS grid node (8 CPUs) (7 hosts) Other Grid Services (4 CPUs) (4 hosts)
HG-05-FORTH grid node (128 CPUs) (64 hosts) PlanetLAB (4 CPUs) (2 hosts) DCS test-beds (30 CPUs) (20 hosts)

Needs for additional computational resources (personal and/or within your institution):

No urgent needs for the moment but we plan to add more grid services (more hosts will be needed) and we may increase the number of the PlanetLAB nodes that we own.

Interest for collaborative research in computational science (personal and/or within your institution):

We have strong interest in having close collaboration with research people and laboratories that will evolve better use of the already existing infrastructure.

Interest for training in computational science (personal and/or within your institution):

We are interested in activities that will promote the usage of the infrastructure through the awareness of the scientific community.

The needs of the scientific community will provide us with more ideas on how to exploit the current and future infrastructure.

Title	Prof.	First Name	Nabil	Last Name	Nassif
Position	Professor of Mathematics, Associate Member of CAMS		Organization	American University of Beirut	
Scientific field				Email	nn12@aub.edu.lb
Telephone	009613321608	City	Beirut	Country	Lebanon
Research interests (personal and/or within your institution): Computational Sciences and Numerical Analysis. Numerical Solutions of Differential Equations.					
Current use of computational resources (personal and/or within your institution): Rescaled Computational Models for Sequential and Parallel integration of time-dependent Differential Equations.					
Needs for additional computational resources (personal and/or within your institution): Acquisition of Multi-core Hardware Systems. Efficient Programming of Parallel algorithms.					
Interest for collaborative research in computational science (personal and/or within your institution): Currently coordinator of local Lebanon team in the SARIMA project. This 4-years program Jan. 2005-Dec. 2008 is sponsored by the French Foreign Ministry and supports collaborative research in Applied Mathematics and Informatics between France, sub-Saharan African countries, Tunisia and Lebanon.					
Interest for training in computational science (personal and/or within your institution): Have already organized in January 2006 a workshop on Multi-grid computing. Would be interested in organizing similar events that would stimulate sharing of new methodologies to use peta-scale and multi core computer systems.					

Title	Prof.	First Name	Marina	Last Name	Neophytou
Position	Lecturer		Organization	UCY – Engineering School - CEE	
Scientific field	Environmental Fluid Mechanics			Email	neophytou@ucy.ac.cy
Telephone	00357 22892266	City	{Address 3}	Country	Cyprus
Research interests (personal): Computational Fluid Dynamics (CFD) simulations of Air Flow and Pollution Dispersion in Urban Areas					
Current use of computational resources (personal): Workstation & PCs (at UCY) + Access to parallel cluster outside my institution (Cambridge University, UK)					
Needs for additional computational resources (personal): Yes					
Interest for collaborative research in computational science (personal): Yes – in multi-level CFD approach.					
Interest for training in computational science (personal):					

Title	Prof.	First Name	Fatma	Last Name	Omara
Position	Head of Computer Science Department		Organization	Faculty of Computer & Information, Univ of Cairo	
Scientific field				Email	f.omara@fci-cu.edu.eg
Telephone		City	Giza	Country	Egypt
Research interests (personal and/or within your institution): Parallel and Distributed Computing, High Performance Computing, Task scheduling, mapping, load balance, QoS Networks, Network Security, Operating Systems.					
Current use of computational resources (personal and/or within your institution): LAN Network, Simulator for Distributed Systems, MPI					
Needs for additional computational resources (personal and/or within your institution): High Performance Systems with 32,or, 64 processors					
Interest for collaborative research in computational science (personal and/or within your institution): Distributed Applications, Parallel Programming, Cluster/ Grid Computing, Mobile Computing					
Interest for training in computational science (personal and/or within your institution): Grid Computing					

Title	Dr.	First Name	Andreas	Last Name	Poullikkas
Position	Senior Engineer, Technological Development		Organization	Electricity Authority of Cyprus	
Scientific field	Mechanical Engineering			Email	apoullik@eac.com.cy
Telephone	+35722201810	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution):					
Energy systems Power plants; Renewable energy sources; Distributed generation; Carbon capture and storage; Power economics; Desalination economics; Emissions inventory Numerical solution of Partial Differential Equations Problems with boundary singularities; Problems with free surface; Method of Fundamental Solutions Centrifugal pumps Hydraulic design; Two phase flow pumping; Cavitation; Disc friction losses; Nuclear power safety; Loss of coolant accident					
Current use of computational resources (personal and/or within your institution):					
Minimal					
Needs for additional computational resources (personal and/or within your institution):					
Minimal					
Interest for collaborative research in computational science (personal and/or within your institution):					
Interest for training in computational science (personal and/or within your institution):					

Title	Position	Organization	Scientific field
Mr.	Ph.D student	Tel Aviv University	Biochemistry

First Name	Last Name	Email	Telephone	City	Country
Elad	Project	eladp@post.tau.ac.il	03-6409824	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Molecular Dynamics of proteins: Conformational changes, dynamic properties, interactions with ions and lipids.</p>
<p>Current use of computational resources (personal and/or within your institution) I use multi cpu molecular dynamics jobs (using MPI) at biocluster (the biology cluster), single quad core nodes and power (the TAU cluster). Also, Quantum calculations to determine the electronic structure of molecules.</p>
<p>Needs for additional computational resources (personal and/or within your institution) We need CPUs connected in a fast interconnect that will allow many cpu jobs. Large storage (Tera Bytes).</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) We usually want to collaborate with experimentalists. Also, computational sciences that deal with techniques for more efficient sampling of phase space are also of interest. Personally, I am also interested in studies that deal with improved algorithms for molecular dynamics and parallelization.</p>
<p>Interest for training in computational science (personal and/or within your institution)</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p>

Title	Mr.	First Name	Vasilis	Last Name	Promponas
Position	Lecturer, Department of Biological Sciences and Head, Bioinformatics Research Laboratory,		Organization	University of Cyprus	
Scientific field	Bioinformatics – Computational Biology			Email	vprobon@ucy.ac.cy
Telephone	2289287 9	City	Nicosia	Country	Cyprus

Research interests (personal and/or within your institution):

- Protein sequence analysis
- Protein secondary structure prediction
- Transmembrane protein topology and structure prediction
- Comparative bacterial genomics
- Phylogenetic analysis
- Computational biology approaches for Synthetic and Systems Biology

Current use of computational resources (personal and/or within your institution):

Current use of computational resources is limited within our research lab (~ 5 workstations). Our research group has access to other HPC resources abroad through research collaborations.

Needs for additional computational resources (personal and/or within your institution):

Storage space: > 0.5 TB/year

Access to a High Performance Computing facility for a series of jobs (e.g. multiple All-against-All comparisons of all sequenced genomes) that currently require several CPU months and are impractical to run on single workstations.

Interest for collaborative research in computational science (personal and/or within your institution):

The Bioinformatics Research Laboratory is always interested in using state-of-the-art computational methods for biological sequence analysis and would happily participate in collaborative projects with research groups from the Cyprus Institute on the aforementioned and related research subjects.

Interest for training in computational science (personal and/or within your institution):

Usage of HPCs (e.g. common queuing systems, using HPCs for serial or parallel applications)
 Training in parallel computing programming (e.g. parallelization of serial applications, common platforms for parallel and distributed computing such as MPI, PVM, Grid-computing)
 Specialized parallel software for computational biology / bioinformatics.

Title	Position	Organization	Scientific field
Dr.	Head of lab	Tel Aviv University	Bioinformatics

First Name	Last Name	Email	Telephone	City	Country
Tal	Pupko	talp@post.tau.ac.il	97236407693	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) My lab develops algorithms for the study of molecular evolution, involving the inference of biological function based on the selection acting on genes and genomes, and applies them to the ever-increasing databases of genomic sequences.</p>
<p>Current use of computational resources (personal and/or within your institution) Currently, we are mainly using our local linux cluster of 90 cpu's, at the Faculty of Life Sciences.</p>
<p>Needs for additional computational resources (personal and/or within your institution) Our cluster is often working in full capacity. The application of sophisticated model of molecular evolution to large-scale genomic data is often limited by the number of cpu's available. I expect that with the natural increase in our demand, we should strive to double our computational resources in the next year or two.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) Yes, but only if the topic matches our research interests.</p>
<p>Interest for training in computational science (personal and/or within your institution) Students in my lab have a strong background in computer science (usually graduates of the computer science school). Where necessary, we would be interested in specific training in the use of new international HPC resources.</p> <p>One of the most important concerns is that the training for new systems, the logistics and formalities necessary be kept at a minimum. We had bad experience in the past with international HPC resources for which the initial investment of signing up and learning to use the system was too much, so we decide to only use our local resources.</p>
<p>Interest in attending an HPC users meeting in your country or abroad It would be most convenient if such a meeting could take place in Israel. In such a case, I would have at least some of my students attend.</p>

Title	Position	Organization	Scientific field
Prof.		Tel Aviv University	Theoretical Chemistry

First Name	Last Name	Email	Telephone	City	Country
Eran	Rabani	rabani@tau.ac.il	+972-3-6407599	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Theoretical Chemistry, Simulations of Materials, Computational Physics, Monte Carlo methods, Lattice Gas Automata,</p>
<p>Current use of computational resources (personal and/or within your institution) Personal cluster with 130 cores.</p>
<p>Needs for additional computational resources (personal and/or within your institution) Yes.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) Mainly along the direction of novel methods for real-time path integration.</p>
<p>Interest for training in computational science (personal and/or within your institution)</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p>

Title	Position	Organization	Scientific field
Professor	Professor	The Hebrew University	Atmospheric Sciences

First Name	Last Name	Email	Telephone	City	Country
Daniel	Rosenfeld	Daniel.rosenfeld@huji.ac.il	+972-2-6585821	Jerusalem	Israel

<p>Research interests (personal and/or within your institution) Cloud processes, cloud-aerosol interactions impacts on precipitation, water resources and climate</p>
<p>Current use of computational resources (personal and/or within your institution) Several PC computer clusters, for simulating cloud systems at all scales, up to full storms such as hurricanes</p>
<p>Needs for additional computational resources (personal and/or within your institution) The limiting factor in the advancement of understanding the subject is the discrepancy between the computational needs and availability. Therefore, we can use ANY additional computational capacity.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) As long as it will provide us with access to significant additional computation capacity.</p>
<p>Interest for training in computational science (personal and/or within your institution) This is necessary for our students. Currently it is not sufficiently available.</p>
<p>Interest in attending an HPC users meeting in your country or abroad This will be useful for us.</p>

Title	Dr.	First Name	Salwa	Last Name	Sabet
Position	Biology Department		Organization	Cairo University	
Scientific field	Biology			Email	salwasabet@gmail.com
Telephone	+ 20-12-1041628	City	Cairo	Country	Egypt
<p>Research interests (personal and/or within your institution): Molecular biology such as DNA cloning, protein expression, analysis of the data using related softwares and programs, protein crystallization and 3D structure protein prediction, working on the synchrotron.</p>					
<p>Current use of computational resources (personal and/or within your institution): DNA and protein Sequence analysis, homologies, prediction of the secondary and tertiary protein structures.</p>					
<p>Needs for additional computational resources (personal and/or within your institution): we're planning to work on the synchrotron in the near future in collaboration with other places, and I am part of this program, so I need to learn more about computational tools used in structure analysis such as: graphics programs for visualization of 3D structure of proteins, databases and software related to secondary structure prediction, homology modeling of 3D structure of proteins and related databases and software.</p>					
<p>Interest for collaborative research in computational science (personal and/or within your institution): Faculty of Science- Cairo University is already in collaboration with SESAME, and there are plans to extend the collaboration, and I've been chosen from my institute to work in that program.</p>					
<p>Interest for training in computational science (personal and/or within your institution): need to learn more about computational tools used in structure analysis such as: graphics programs for visualization of 3D structure of proteins, databases and software related to secondary structure prediction, homology modeling of 3D structure of proteins and related databases and software</p>					

Title	Position	Organization	Scientific field
Dr.	Director of Language Learning Center	Tel Aviv University	Technology in Language Learning

First Name	Last Name	Email	Telephone	City	Country
Miriam	Scholnik	smiriam@post.tau.ac.il	972 3 6407458	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Technology in language learning Reading on screen Computer mediated communication</p>
<p>Current use of computational resources (personal and/or within your institution) Personal: have a personal computer and a laptop Within my institution: I am the head of a learning center that has 28 computers. The technology has become old and due to lack of funding we have not been able to replace the computers</p>
<p>Needs for additional computational resources (personal and/or within your institution) Within my institution: We need new computers for the learning center, which serves students from all faculties, as they take language courses. Our language for academic purposes courses are technology enhanced and we have developed innovative curricula and materials that are hard to implement without the proper technology.</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution)</p>
<p>Interest for training in computational science (personal and/or within your institution)</p>
<p>Interest in attending an HPC users meeting in your country or abroad</p>

Title	Prof.	First Name	Ahmed	Last Name	Sharaf Eldin
Position	Professor		Organization	Helwan University	
Scientific field	Computer science			Email	Profase2000@yahoo.com
Telephone	+20 10 500 07 02	City	Cairo	Country	Egypt
Research interests (personal and/or within your institution): Computer mathematics, bioinformatics, finite elements and numerical methods					
Current use of computational resources (personal and/or within your institution): Normal PC					
Needs for additional computational resources (personal and/or within your institution): Yes, we need HPC					
Interest for collaborative research in computational science (personal and/or within your institution): Yes					
Interest for training in computational science (personal and/or within your institution): Yes					

Title	Mr.	First Name	Andreas	Last Name	Skarlatoudis
Position	Seismological Station of Thessaloniki		Organization	AUTH	
Scientific field	Geophysics			Email	askarlat@geo.auth.gr
Telephone	00302310991406	City	Thessaloniki	Country	Greece
Research interests (personal and/or within your institution): Study of strong motion properties (attenuation, duration). Strong motion records simulation. Seismology (earthquake relocation, seismic records analysis)					
Current use of computational resources (personal and/or within your institution): Satisfying (About 40GB RAM and 6 CPU Opteron 848 and 854)					
Needs for additional computational resources (personal and/or within your institution): Yes (Needs for about 80GB RAM and more CPU power)					
Interest for collaborative research in computational science (personal and/or within your institution): Yes					
Interest for training in computational science (personal and/or within your institution): YES					

Title	Assoc. Professor	First Name	Spiros	Last Name	Skourtis
Position	Dept of Physics		Organization	Ucy	
Scientific field	Chemical Physics, Biophysics			Email	skourtis@ucy.ac.cy
Telephone	357-22- 892831	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution):					
Theoretical and Computational Biophysics and Chemical Physics Molecular and Biomolecular charge transport (theory and computation) Reaction rate theory, Protein dynamics (theory and computation), Molecular electronics (theory and computation)					
Current use of computational resources (personal and/or within your institution):					
Two linux clusters for MD Electronic-structure calcs shared with other biophys. colleague					
Needs for additional computational resources (personal and/or within your institution):					
Access to as many nodes as possible					
Access to different high level electronic structure and MD programs with different capabilities					
Interest for collaborative research in computational science (personal and/or within your institution):					
Ab-initio molecular dynamics with QM/MM (ground state and excited state) High level excited state electronic structure calculations with QM/MM					
Interest for training in computational science (personal and/or within your institution):					
Personal					

Title	Professor	First Name	P.	Last Name	Sphicas
Position			Organization	University of Athens	
Scientific field	High Energy Physics			Email	Paris.Sphicas@cern.ch
Telephone	+30-210-727-6883	City	Athens	Country	Greece
Research interests (personal and/or within your institution):					
Experimental Particle Physics. Computing and Software systems for data analysis. Trigger and Data acquisition systems.					
Current use of computational resources (personal and/or within your institution):					
CERN batch systems for analysis work. GRID system (LCG) for large-scale productions of Monte Carlo simulations. In the future, once the LHC begins, usage of these systems for data processing.					
Needs for additional computational resources (personal and/or within your institution):					
Analysis clusters (multiple CPUs plus large local storage for running through very large numbers of events -- event== data from a single proton-proton crossing at the LHC). Tier-2 facility (in Greece or in collaboration with nearby countries) for hosting and re-processing of experiment data (small scale -- current estimates for Tier-2s speak of about 1000 SI2K, and 100 TB storage).					
Interest for collaborative research in computational science (personal and/or within your institution):					
With any team participating in the LHC or European Grids.					
Interest for training in computational science (personal and/or within your institution):					
If the question refers to "obtaining training" -- we do have a number of students with such training needs. If the question refers to "providing training" -- at this point there are programs organized by the Greek Network for research (GRNET).					

Title	Dr.	First Name	Stathis	Last Name	Stiliaris
Position	Assistant Professor		Organization	University of Athens & IASA	
Scientific field	Medical Imaging			Email	stathis@iasa.gr
Telephone	+30-210-7257533	City	Athens	Country	Greece

Research interests (personal and/or within your institution):

Interests in Nuclear and Hadronic Physics with electron beams, gamma-Detection Systems in Nuclear Medicine, Accelerator Physics and Beam Optics.

Study of the N \rightarrow Delta transition in the proton with polarized electron beams using high precision out-of-plane spectrometry.

Analysis and extraction of multipole amplitudes in the nucleon resonance region from electroproduction data

with novel methods based on statistical concepts which relies heavily on Monte Carlo and simulation techniques.

Construction and improvement of a high resolution and high sensitivity small field gamma-Camera for SPECT imaging.

Development of SPECT reconstruction algorithms based on accelerated iterative techniques (Algebraic Reconstruction Technique, ART), statistical methods (Maximum Likelihood Expectation Maximization, MLEM) and Artificial Neural Networks.

Simulations with the CERN software package GEANT/GATE.

Current use of computational resources (personal and/or within your institution):

The GRID node at the Institute of Accelerating Systems & Applications (IASA) is currently used for the Monte Carlo simulations of the multipole amplitude analysis.

- Mean number of job submissions per month: 30
- Average execution time: 8h per job (P4 at 3.2GHz)
- MPI: not used
- Average size of files uploaded: 1MB per job
- Average size of files downloaded: 80 MB per job

Needs for additional computational resources (personal and/or within your institution):

There are plans for portation of the GATE/GEANT software for dedicated simulations of the gamma-Camera system and the developed SPECT reconstruction techniques using software phantoms.

Interest for collaborative research in computational science (personal and/or within your institution):

There is strong interest for collaborative research in parallelization and MPI techniques.

Interest for training in computational science (personal and/or within your institution):

Yes, especially for the young researchers of the group.

Title	Dr.	First Name	Costas	Last Name	Strouthos
Position	Research Scientist		Organization	UCy	
Scientific field	Computational Biology, Computational Physics			Email	strouthos@ucy.ac.cy
Telephone	+357 25892233, +357 99377041	City	Nicosia	Country	Cyprus
Research interests (personal and/or within your institution):					
<p>1) Computational Cancer Biology: Modeling of the spatiotemporal evolution of cancer as a complex, self-organizing, adaptive biosystem. Modeling of cancer angiogenesis. Modeling of metabolic and signal transduction networks.</p> <p>2) Lattice Field Theory and it's applications in (a) Quantum Chromodynamics (QCD) and condensed matter physics / material science (e.g. high temperature superconductivity, nanomaterials such as graphene).</p>					
Current use of computational resources (personal and/or within your institution):					
I am temporarily running my simulations on my collaborators' computer clusters at Harvard, M.I.T. and Swansea University.					
Needs for additional computational resources (personal and/or within your institution):					
I do need more computational resources in order to run massively parallel simulations related to the above mentioned fields. Therefore, I am very interested in the initiative of the Cyprus Institute to host a high performance computer cluster.					
Interest for collaborative research in computational science (personal and/or within your institution):					
My research is interdisciplinary and covers a broad spectrum of computational sciences. I am very interested in expanding my collaborations with scientists at various institutions in Cyprus, the region, the EU, the USA and other countries.					
Interest for training in computational science (personal and/or within your institution):					
I am always interested in expanding my knowledge on parallel programming on state of the art machines such as the supercomputer of the Cyprus Institute.					

Title	Dr.	First Name	Georgios	Last Name	Stylianou
Position	Department of Computer Science and Engineering		Organization	European University of Cyprus	
Scientific field	Geometric Modeling, Visualization			Email	g.stylianou@euc.ac.cy
Telephone	9922713199	City	Engomi	Country	Cyprus
Research interests (personal and/or within your institution): Geometric Modeling, Visualization, Feature extraction, applications, 3D reconstruction.					
Current use of computational resources (personal and/or within your institution): Currently we use high-end graphics pcs to implement novel methods and apply existing methods for geometry processing such as 3D reconstruction, surface processing, feature extraction (crest lines) and application to relevant applications.					
Needs for additional computational resources (personal and/or within your institution): There is a need for computational resources for implementing feature extraction on time-varying volume data and multi-variate processing and visualization.					
Interest for collaborative research in computational science (personal and/or within your institution): Highly interested					
Interest for training in computational science (personal and/or within your institution): Yes, as long as the course is relevant to my research interests directly or indirectly.					

Title	Position	Organization	Scientific field
Professor		Tel Aviv University	Particle Physics

First Name	Last Name	Email	Telephone	City	Country
Benjamin	Svetitsky	bqs@julian.tau.ac.il	+972-3-6408870	Tel Aviv	Israel

<p>Research interests (personal and/or within your institution) Theoretical physics of elementary particles; physics beyond the Standard Model, via large-scale simulations in lattice gauge theory</p>
<p>Current use of computational resources (personal and/or within your institution) We are running parallel (MPI) code for Monte Carlo simulations on small workstation clusters.</p>
<p>Needs for additional computational resources (personal and/or within your institution) We need to expand to much larger systems. We are considering applying for an MRAC allocation of TeraGrid resources. (Our calculations are in general unsuitable for grid computation.)</p>
<p>Interest for collaborative research in computational science (personal and/or within your institution) We will be happy to collaborate with other physicists in code development for lattice gauge theory.</p>
<p>Interest for training in computational science (personal and/or within your institution)</p>
<p>Interest in attending an HPC users meeting in your country or abroad Yes, definitely.</p>

Title	Dr.	First Name	Said	Last Name	Taha
Position	Assistant professor		Organization	Biophysics Department, Faculty of Science, Cairo University	
Scientific field	Biophysics - Structural Biology			Email	saidataha@hotmail.com
Telephone	2010-4244502	City	Giza	Country	Egypt

Research interests (personal and/or within your institution):

1. Protein characterization, X-ray crystallography and SAXS (Small angle X-ray Scattering), (my postdoctoral work)
2. Protein interactions and assembly, I have a good experience in Analytical ultracentrifugation (AUC) and its analysis techniques, e.g. sedfit, sedphat, DCDT+ and Svedberg programs. (I took my Ph.D. in this part).

Current use of computational resources (personal and/or within your institution):

The most important programs that are needed for our data analysis of X-ray work are;

1. MOSFILM
2. CCP4 programs for model building and refinements

Needs for additional computational resources (personal and/or within your institution):

1. HKL2000.
2. Gnom program for calculating the pair wise distribution function.
3. GASBOR program , which reconstructs the ab initio protein structure.
4. DAMAVER program.
5. SUPCOMB.

Interest for collaborative research in computational science (personal and/or within your institution):

There are different collaborative research work with different departments to elucidate some structural function relationship and also 3-D structure determination for rational drug design. So the computation science is needed for data analysis and structural refinement.

Interest for training in computational science (personal and/or within your institution):

It is important to make training on the new programs for data analysis of X-ray diffraction or SAXS experiments.

Title	Position	Organization	Scientific field
Dr	Lecturer	University of Haifa	Algorithms for Peer-to-Peer Systems

First Name	Last Name	Email	Telephone	City	Country
Ran	Wolff	rwolff@mis.haifa.ac.il	+972-4-8288504	Haifa	Israel

Research interests (personal and/or within your institution) Peer-to-Peer and Grid Systems, Data Mining
Current use of computational resources (personal and/or within your institution) Single server simulations
Needs for additional computational resources (personal and/or within your institution) 8-16 GByte RAM machines, 4-8 processors.
Interest for collaborative research in computational science (personal and/or within your institution)
Interest for training in computational science (personal and/or within your institution)
Interest in attending an HPC users meeting in your country or abroad Will attend if held in Israel. Will probably attend if held at Cyprus.