NATIONAL CENTER FOR SUPERCOMPUTING APPLICATIONS

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

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Find out when NCSA opens new positions by *joining our mailing list*.

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HOW DO I APPLY?

Create a user name and password in HireTouch. HireTouch and a complete list of career opportunities available on the Champaign-Urbana campus can be found at *jobs.illinois.edu*.

WHAT IS AN ACADEMIC PROFESSIONAL?

***Academic Professionals* (APs) are salaried employees whose positions meet specialized administrative, professional, or technical needs. These positions have been exempted from the**

POSTDOCTORAL FELLOWSHIP

NCSA/Cyprus Institute

NCSA at the University of Illinois at Urbana-Champaign, and Computation-based Science and Technology Research Center (CaSToRC) at the Cyprus Institute (CyI), invite applications for postdoctoral fellow position in the field of deep learning. The position is shared between Illinois and CyI. The successful candidate is expected to contribute to the development of system and software in support of a newly awarded National Science Foundation grant to develop a computational instrument for deep learning research.

The CyI is a research institution based in Cyprus. It is an international non-profit science and technology research and post-graduate education organization in pursuit of regional and inter-regional problems of global significance. Led by an acclaimed Board of Trustees and partnered with leading international research institutions, the CyI is world-class in its standards and global in its membership. The CyI is a public benefit organization of Cyprus and welcomes students, faculty and staff of all nations, cultures, races and faiths. The research aims of the CyI are represented by three research centers: CaSToRC, the Energy, Environment and Water Research Center and the Science and Technology in Archaeology Research Center.

KEY RESPONSIBILITIES

The successful candidate will work at CaSToRC and NCSA with a main focus on the development and implementation of deep learning frameworks and network training models on a multi-GPU multi-node system. He/she will be primarily engaged in the following activities:

- Extending state-of-the art in the area of deep learning systems and architectures;

- Adaptation of the existing and development of new deep learning frameworks;

- Development of the middleware and application-level software for deep learning;

- Development of web-based interfaces to deep learning frameworks;

- Gathering application requirements and ensuring the developed software meets these requirements;

- Helping research teams to adapt deep learning frameworks to their application areas in particular in thematic areas of common interest to CaSToRC and NCSA;

- Publishing research results;

- Developing tutorials and carrying out training of new users.

REQUIRED EDUCATION AND EXPERIENCE

- PhD degree in computer science, computer engineering, computational sciences, or related fields;

- Experience with deep learning/machine learning software/hardware development and usage;

- Experience in high performance computing;

- Experience in parallel programming with C, C++, Python or other programming languages;

- Analytical problem solving ability;

- Strong verbal and written communication skills;

- Good interpersonal and teamwork skills.

PREFERRED EXPERIENCE

- Research experience in the scientific areas of interest of the centers;

- Experience in the development of data-intensive scientific applications;

- Expertise in curation of large data sets;

- Knowledge of CUDA or OpenCL programming;

- Knowledge of FPGA-based hardware development tools and techniques;

The appointment will be for a fixed term of two years with the possibility of extension for another year. The rank and salary range will be commensurate with the experience and qualifications of the candidate. For full consideration, interested applicants should send their application materials (cover letter, curriculum vitae, research statement, links to recent publications, names/contact information of 3 referees) to postdoc-search@ncsa.illinois.edu and include "Cyprus-NCSA Postdoc Application in Deep Learning" in the subject line.

Interviews and hires may take place prior to the closing date and early applications are encouraged; however, full consideration will be given to complete applications received by the closing date, **November 30, 2017**. For further information regarding position requirements and application procedures, contact Volodymyr Kindratenko at kindrtnk@illinois.edu or +1 (217) 265-0209.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. Visit www.inclusiveillinois.illinois.edu.

For further information regarding our application procedures, you may visit www.ncsa.illinois.edu or email NCSA-HR@illinois.edu.